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## THIRD TIIUUSAND.

## A TREATISE

ON

## HARMONY

(With Exercises)
By

## J. HUMFREY ANGER

Professor of Harmony, etc., at the Tpronto Conservatory of Music ; Hon. Mus. Voc., Trinity University, Toronto ; Mus. Bac., Oxon; F.R.C.O.
$\qquad$

In Three Paris.
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## TABLE OF CONTENTS.

## Part II.

## chaptem.

Introduction .. . . . Pace
XII. Secondary Sevenths ..... 189
XIII. Chords of the Ninth ..... 205
XIV. The Derivatives of $\mathrm{V}_{9}$ ..... 222
XV. Simple Suspensions ..... 244
XVI. Compound Suspensions ..... 265
XVII. Auxiliary Notes ..... 290
XVIII. Extraneous Modulation ..... 330
Appendix-Figures ..... i
Index$\mathbf{x x i}$

The titles of the above chapters refer to the principal subject under treatment. In chapter xviii. Arpeggios, Pedals and Ground Basses are explained, and a brief reference is made to some of the more frequently employed chromatic chords.

## ERRATA.

Page 107. Under $\$ 115$, for II7 $_{7}$, read $\mathrm{II}_{7}{ }^{1}$.
Page 214. The should be placed over the second chord not tlie first.

Page 256. Line 9, for I, read I. $13 \quad 13$

Page 257. Line 6, for I, read I.
Page 273. Example (c) under the note E, for 66, read 65.
Page 277. First example, under the note $A$, for 98 , read 98. Also, third note from the end in the Alto, for $F$, read G.

Page 311. The last line of the music on this page should be as follows :


## A TREATISE ON HARMONY.

## PART II.

## INTROI)UCTION.

The common chord and its inversions constitute the foundation of the whole fabric of musical composition. A chord of the seventh, or tetrad (as it is sometimes called) is simply a modification of a triad. All discords, in fact, may be regarded as modifications of concords. To the proper use of the dissonant element in music the attention of the student will from this stage onwards, be almost exclusively confined. Up to this point all authorities are practically in perfect accord in their treatment of this subject; and the same may be said of their treatment of suspensions and auxiliary notes generally; but in the matter of fundamental discords there are three distinct theories, namely,
(1) that which comprises the chords of the seventh only,
(2) that which comprises both chords of the seventh and ninth, and
(3) that which comprises not only chords of the seventh and ninth but also chords of the eleventh and thirteenth.
Beethoven (1770-1827), and his contemporaries, wrote their works, presumably in accordance with the first of these theories; occasionally, however, they employ certain chords which are now. almost universally regarded as chords of the ninth. It is very evident that they did not write in accordance with the eleventh and thirteenth theory, for, in the first place this theory did not arise until about the middle of the 19th century, and in the second place, they frequently employed chords which are forbidden by this theory, and which consequently are explained (in order to suit the theory) as consisting of false notation.

Reference to this theory-sometimes called the Day theory, as it was originated by Alfred Day, M.D. (1810-1849) -has been made in the Preface-Part I - of this treatise, but it will be fully explained in Part III, in connection with the chromatic element in harmony, where it will be shown that the 'Modern enharmonic scale' (page 37) is the true basis upon which modern composers construct their chromatic chords and progressions.

Although it is customary to treat of fundame...al discords before suspensions and auxiliary notes are explained, yet, from a historical standpoint, it may be said that auxiliary notes (passing notes) were in use before suspensions, and suspensions before fundaniental discords. Harmony, it has been said, arose as a separate science from counterpoint through the establishment of the doininant seventh as an independent clord, with the dissonance not necessarily prepared. So long as the seventh was prepared or treated as a passing note, this chord would be acceptable to the strict writers of the 15 th and 16 th centuries, but with the free treatment of the seventh at the hands of Monteverde ( 1567 -1643) and his successors in the ryth century, a new science, formerly known as Thorough-bass but now generally known as Harmony, arose. The advent of Harmony did not affect the laws of strict counterpoint, which are practically the same to-day as they were in the year 1600 , but, in course of time, a union of these two forces was effected, resulting in free counterpoint or contrapuntal harmony, which became the basis upon which the highest types of classical music were composed. When one remembers the limited resources at the command of inusicians in the days of Palestrina ( $15^{1} 4-1594$ ) one cannot fail to appreciate the marvellous works which emanated from the pen of the medi. æval composer.

Compositions written on a basis of counterpoint are called polyphonic (i.e. for many voices) each voice or part being a distinct melody, and all voices being equally iniportant from the melodic standpoint. Compositions written on a basis of harmony are called homophonic (i.e. for one voice), as there is but one melody, usually assigned to the highest voice or part, to which
are added accompanying chords. 'To the early masters of polyphony, we are indebted for practically all the laws which govern melodic progressions at the present day. Originally, the principal melody, that to which the other melodies were added, sometimes called the Cantus firmus (Fixed sorig), was given to the tenor voice, the tenor (Lat. teneo, I hold) being regarded as the middle of the male voices. The voice below the tenor was called the bass (Lat. bassus, low), that above the tenor was called the alto (Lat. altus, high), the alto being taken by a male voice. When a third voice was added to the tenor, it was called the treblc (Lat. triplus, triple); this part was usually taken by boys.

As learning throughout the dark ages was almost exclusively confined to the monasteries, $s^{\prime}$ ) all that appertains to musical notation is derived from the influence of the monks; when the modern chorus of mixed voices arose, the treble and alto parts were taken respectively by the high and low voices of women, the tenor and bass parts hy the high and low voices of men. The term 'soprano.' (lt. sopra, above) is synonymous with, and is frequently used instead of, 'treble'. In addition to the above voices, there are also the mczzo-soprano and baritone voices, the former being the middle voice of women and the latter the middle voice of men.

It is customary, as has already been seen, to arrange chords for the four ordinary voices; the composer, as it were, thinks in four-part harmony; at the same time, music may be written for three voices, or for five, six, seven or eight voices. Three-part harmony may be regarded as four-part harmony with one voice, usually the tenor omitted ; in any case, the lowest part must always be a correct bass to the upper parts. As a matter of fact, music may be written for any three voices, for example, three male or three female voices. Harmony for other than four voices will be considered in detail in Part III of this Treatise, in the mean time, for the sake of the student who is desirous of possessing some knowledge on the subject of three-part writing, it may be said that the general rules for four-part harmony must be
strictly observed in the matter of both harmonic and melodic progressions. The chords should be as complete as possible; the fifi $h$ of the chord may be omitted. but the third should rarely if ever be omitted, except perhaps in the final chord when 'he melody ends on the tonic preceded by the supertonic. Two-part harmony, strictly speaking, does not exist ; a composition for two voices is called a duet, and a duet, like a song, requires an independent instrumental accompaniment. A duet, furtherinore, is the union of two distinct melodies, and as such it belongs to the realm of counterpoint, which is the art of combining two or more contrasted melodies.

The attention of the student, in the present volume-Part II-will still be confined to vocal harmony; instrumental harmony will be considered in Part III. His attention, for the most part, will be directed to the diatonic discords of the major and minor modes, at the same time, a brief reference will be made to the more frequently employcd chromatic chords. The scientific basis of the chromatic element in music, treated from the modern standpoint, will lee explained in Part III. Should the student, however, not prosecu:e his studies in the realm of harmony beyond the present volune, he will at least have the satisfaction of being more or less familiar with all the chords, both diatonic and chromatic, to be found in the works of the greatest masters of classical music.

As a strict adherance to the general laws of Part-writing is of paramount importance, the student would do well to commit the following summary of these laws to memory.
I. Avoid consecutive octaves (unisons).

They strengthen melody but weaken harmony. See pages 59-61
II. Avoid consecutive perfect fifths.

Consecutives fift's, of which the first is diminished and the senond perfeet. are possible between two upper parts, but ore forbidden between the bass and an upper part. When the first is perfect and the second diminished. they are possible between any two parts, see pages $59-61,106$, 150 226-7.

## III. Avoid hidden fifths and octaves.

Unless the roots move a perfect fourth or fifth, and the treble moves one degree. See pages 61-2, 107-8, 136-7.
IV. Kemember the Leading-note.
(1) It should, as a rule, rise to the tonic ; (2) it inust never he doubled, and (3) it may not be approached from below by an interval greater than at third. See pages 51. 58, 67. $82,105,150,292$.
V. Avoid augmented intervals.

The skip of ill augmented fourth is permitted in the dominant sequence, also when both note; of the interval form part of the satme chord; the augmented second of the minor mode is sometimes cmployed in a scale passage. See pages 58, 81-3, 151, 303.
VI. Never omit the third of a chord.

And rarely double the third, except in VI before or after V, when, in the major mode it is usually, and in the minor, alzays diubled. See pages 46, 48, 68, 136, 20x-9.
VII. Avoid crossing the parts.

This device is sometimes employed in harmony for morc than four voices, also in contrapuntal compositions. See pages 47, 273-4, 297, 306.
VIII. Avoid overlapping the parts.

It is least objectionable when the upper part moves a mir or second and the lower part a fourth. See pages 63, 304 337.
IX. Avoid false relation.

It is, however, frequently cmployed in compositions, (l) in proceeding to or from a fundamental discord, (2) between two chords whose roots move a major or minor third, and (3) in proceeding from a Neapolitan sixth to a dominant chord, etc. See pages 89, 299, 331.
X. Always resolve discords.

Many discords require preparation, but all discords must be resolved either directly or indirectly. See pages 82,105 , 135 , etc.
In addition to the above it should be said that consecutive seconds and sevenths, and consecutive fourths between the bass and an upper part are also forbidden; that in no case may the octave be approached by similar motion, one voice moving a second and the other a third; that the note upon which the seventh (in a chord of the seventh) resolves should rarely be doubled, and never, unless it is approached by contrary motion

On the other hand, it may be said that hidden consecuive octaves between the extreme parts, even with a skip in the treble, are not objectionable in approaching a six-four chord; that false relation is permissible if it arises through the use of a chromatic auxiliary note ; that the leading-note may be doubled on a weak beat, if sustained in one part while another part takes it in a scalc or arpeggio passage; that it may alsu be doubled in the diminished triad on the leading-note, when this chord resolves on the mediant, as in the dominant sequence, but not when this chord resolves on the tonic, for, the chord has then the effect of being an incom:lete form of the first inversion of the dominailt seventh.

Furthermore, each part, as a general rule, should move by as small an interval as possible, notes common to successive chords biing retained in the same part. If, however, a cloord is immediately repeated, skips of a third $c \cdot$ fourih are good, and even a fifth or sixth, possible. The skip of an octave is often taken in the bass, and sometimes in the treble, but rarely in an inner part. The skip of a minor seventh is raerly good, and that of a major seventh is forbidden altogether. Skips of a fifth and sixth, when desirable, are best employed in approaching or quitting the tonic or dominant, they are rarely good in other cases, when occurring between two diffcrent chords. The skip of a diminished seventh, down to rr up from the leading-note of the minor mode is permissible, but, aft:r the skip of this and all diminished intervals a return to a note within the interval is obligatory.

The notes of the diatonic scale may he divided into two classes, the active-notes of motion, and the passive-notes of rest. To the latter class belong the three notes of the tonic chord, the other notes belonging to the former. The function of an active note is to proceed conjunctly to a passive note; this feature will be seen in due course when th.z chords of the minor and diminished sevenths on the leading-note are under consideration, for these chords contain respectively the active notes of the major and minor scales, and in resolition they proceed
conjunctly (with the exception sometimes of the supertonic) to the notes of the tonic chord The passive notes, as a rule, should occur upon the strong beats, and the active upon weak beats; the former may be approached and quitted disjunctly, but the latter (with the exception again of the supertonic) are usually approached and quitted conjunctly. These general rules are by no means to be regarded as absolute laws, if borne in mind, however, they should be of material assistance to the student when writing inelodies. An examination of some of the most popular hymn-tunes and national airs will show that composers have, for ages past, written their melodies with due tegard to the proper treatment of the active and passive notes of the diatonic scales. The student will now be able to appreciate one of the most important features in modulation, naniely, change of function. In modulating to the key of the dominant, for example, the tonic and mediant of the oiginal key change from passive to active notes, while the supertonic and leading-note change $f(\mathrm{~cm}$ active to passive, and, although the dominant remains passive yet, as a harmonic note, it changes from being the root of a chord of motion to the root of a chord of rest (see page 70 ).

Each note of the sca!e, moreover, possesses a certain aestnetic character. Let the student play the common chord of C major on the piano, and then strike any one note in the scale and sustain the same, he will then feel that this note has a purpose peculiar to itself, a point which has never been overlooked by the great composers, when one individual note is treated with special prominence. The aesthetic characteristics of each note of the inajor mode will be found in the following table, which should be read upwards.

Leading-note. . Brilliance, acuteness, penetration
Subinedıant...Adversity, sorrow, tepentance.
Dominant. . . . Gladness, enthusiasm, animation.
Subdominant..Faith, gravity, reverence.
Mediant . . . . Ease, peace, happiness.
Supertonic.... Desire, hope, expectancy, Tonic.........Constancy, strength, determination.

In the minor mode the character of the mediant is more or less changed to that of the submediant of the major mode and and vice versa, but in other respects the modes resemble one another.

The initial letters of the first words, in the above table, it will be seen form the seale of C ; this selection of terms may assist the student in committing the table to memory.

These tunal characteristics will not enter into the academic work of the student, but they play no small part in compositions ; the great oratories, for example, bristle with magnificent effects the result of simple means founded upon their use. Whenever, in fact, special prominence is given to a note, such as unduly extending it by the use of a 'pause', it will almost invariably be found that it has been chosen on account of its aesthetic character, as given above.

Before proceeding to secondary sevenths, and chords of the ninth, etc, the student is strongly advised to be perfectly sure of the ground that he has already covercd. It has well been said that the greatest difficulty in the study of harmony, for the average siudent, is to be found in the early work. When the common chord and its inversions have once been really conquered, the subject prese ts no unsurmountable features whatever; on the contrary, it becomes ever more and more interesting and fascinating. It is, however, of primaty importance that the student should not only be able to name each chord as it occurs, but that he should also be able to recognize its effect, in other words, that he should acquire the faculty of 'tonal-vision'. This faculty, indeed, is absolutely indispensable, and if the student at the present stage does not yet possess it, he should learn that with practice, perseverance and determination it can be acquired, and that without it, he can never entertain the hope of ultimate success in the realm of harmony.


## CHAPIER XII.

## SECONDARV SEVENTHS.

110. When a chord of the seventh occurs on any degree of the scale other than the dominant, it is called a secondary seventh." All chords of the seventh are named after the rool upon which they are constructed. The most important of the secondary sevenths is that formed on the supertonic, the supertonic serenth.


Unlike $\mathrm{V}_{7}$, which never varies in its formation, secondary sevenths differ according to the mode in which they occur. In the chord at $a$, the fifth is perfect, in that at $b$, it is diminished. The symbols for these chords are respectively II-7 (or simply II7) and IIo7.
111. The seventh, in secondary sevenths, not only resolves by descending one degree, but it must also be prepared, that is to say, it must be heard in the same part in the preceding chord. No rule is applicable to the third, except that it must never be omitted. The fifth is treated like the fifth in $V_{7}$, and when it is omitted the root should be doubled. Should the Leading-

[^0]note occur in a secondary seventh, it is treated according to the position it occupies in the chord; unlike the progression of this note in $\mathrm{V}_{7}$, it rarely rises to the tonic. Speak ng generally, it may be said that neither the third nor the fifth nor indeed the root unless it is in the bass, should move disjunctly to the chord of resolution. Nu one note in particular in these cherds is hest in the treble; although the most convenient form for $\mathrm{II}_{7}$, as a general rule, is with the seventh in the treble, the fifih omitted and the root doubled.

Modern composers frequently introduce these chords with the seventh not prepared; students, however, are strongly advised to follow the rules here given.
112. Secondary sevenths proceed naturally by roots rising a fourth or falling a fifth; II7, therefore, resolves on V or $\mathrm{V}_{7}$.

The chord of preparation must contain the note which is about to become the seventh, as either the zoot, the third or the fifth of the chord. The following examples illustrate the use of $\mathrm{II}_{7}$ in the key of C major.


The progressions at $a$ and $b$ (above) may be transcribed to the key of C minor, by employing the proper key signature, and by inserting a natural before the note B , each time it occurs.

Ilo7 is sometimes employed in the major mode, in which case it is called the 'supertonic mimas seventh' and is regarded as a chromatic chord, that is to say, a lord containing one or more notes which do not form part of the diatonic scale of the key. The fifth in this chord (II07), being diminished, must be resolved, as well as the seventh.
113. The dominant sequence, $\$ 53$, is frequently varied by the employment of chords of the seventh, as at $a$, where it will be seen-
that the third of each chord becomes the note of preparation for the succeeding seventh which duly resolves by descending one degree in the following chord;
that each alternate chord (as a rule, when the scventh is in the treble) is incomplite, the fifth being omitted and the root doubled; and
that in proceeding from a chord of the scventh, the upper parts in no case moze disjunctly; cach note either is repeated or falls a sccond, except the laading-note alone, which rises to the tonic.


The dominant sequence may also be varied by the employ ment of a chord of the seventh on each alfernate bass notr, as at $b$ and $c$.

114. Secondary sevenths have three inversions, the figuring of which is the same as that employed for the inversions of $\mathrm{V}_{7}$. Of these, the first and third inversions, $a$ and $b$, are of frequent occurrence, but little use, comparatively speaking, is made of the second inversion, $i$. The inversions of $\mathrm{I}_{7}$, in the key of C , are shown in the following example, the chord of resolution being $V$ or $V_{7}$, the same as when II7 is in root position.
(a)
(b)



The above progressions are equally available in the minor mode. The effect of the second inversion is generally better when the bass-note is prepared.
115. The first inversion of $\mathrm{II}_{7}$ requires special consideration, for this chord is apparently cxactly the same as the chord generally known as the 'Added sixth'; the notes of these chords are indeed identically the same, the roots, however, are different, whi.e the dissonant note in either chord is consonant in the other; by the chord of resolution alone, herefore, can these chords be distinguished.

The chord of the 'added sixth '-s"'nbo' IV + 6 (or simply IV6) in the major mode, and IV-6 in the minor-is formed on the subdominant, and consists of a triad on that note, to which, as the name implies, a sixth is added; the sixth is therefore the dissonant note, but unlike fundamental discords, this note is more or less irce, though it usually resolves by ascending one degree. The fifth in the 'added sixth' is, of course, a consonant note, being the fifth of the root, but in $\mathrm{II}_{7}{ }^{1}$ the fifth is the dissonant note, being the seventh of the root. The 'added sixth ' naturally resolves upon the tonic chord, as at $a$, and the progression may be regarded as a variation of the plagal cadence; this progression, if the supertonic were the root, would be bad. At $b$, the 'added sixth' resolves upon I'. At $c$, the same chord is treated as $117^{1}$, and therefore resolves upon V , forming an impsrfect cadence; this is simply another position of the progression at $a$, § 114 .

II $7^{1}$, however, frequently resolves upon a cadential sixfour. as at $d$, especially when II in the treble rises to III; the resolution of the seventh, in this case, is necessarily deferred until the following chord.
(a)


The above passage may be transcribed to C minor, the 'added' sixth (like $\mathrm{II}_{7}$ ) being freely employed in both modes.

A chord of the 'added sixth' occurs also on the tonic of the major mode, but not on the tonic of the minor; this and othar chords of a similar character, chords formed by the use of auxiliary notes, will be considered, in due course, in a later chapter.
116. The chords in the sequential passage of sevenths at $a$, 113 , may be inverted as shown in the following examples. It will now be seen that each chord of the seventh is complete, and that the bass, as well as the upper parts, proceeds by conjunct movement only.



The passages at $b$ and $c, \oint_{113}$, may also be inverted in a similar manner.

1:7. Secondary sevenths, unlike dominani sevenths, do not determine keys. The chord at $a$, in the following example,

is not only $\mathrm{I}_{7}$ in C , it is also $\mathrm{IV}_{7}$ in G , and $\mathrm{VI}_{7}$ in E minor ;
while the chord at $b$, besides being $\mathrm{II}_{7}$ in C , is also $\mathrm{III}_{7}$ in B flat, $\mathrm{VI}_{7}$ in F , and $\mathrm{IV}_{7}$ in A minor. Whereas, if the above chords are converted into dominant sevenths, by flattening the $B$ in the first, and by sharpening the $F$ in the second, as at $c$ and $d$, the keys of $F$ and $G$ respectively, major or minor as desired. are at once and alone established.

When a secondary seventh is chromatically changed, as from $a$ to $c$, or from $b$ to $d$, in the above example, it does not, however, necessarily induce a modulation, in which case it is, of course, a chromatic chord, and is called a primary seventh. Primary sevenths will be considered in a later chapter, under chromatic chords.
118. In harmonizing unfigured basses and melodies; secondary sevenths may, speaking generally, be freely introduced when the seventh can be properly prepared and resolved; $\mathrm{II}_{7}$ being especially effective as a pre-cadential chord, that is to say, the chord which precedes the perfect cadence.

When two or more notes occur in a descending scale passage, as at $a$, chords of the seventh may often be introduced by employing two chords for each note, as at $b$ and $c$.


In other respects the tables given on pages 119 and 121 may be followed; while the harmonic progressions which have been given in the chapters on the common chord and its inversions will still and always remain the basis upon which melodies, in whatever voice or part they may occur, should, as a general rule, be harmonized.

## SUMMARY.

§ito. Secondary sevenths generally.
The most important being the supertonic sevenths, II7 and Ilo7.
§ini. The treatment of the seventh.
It not only resolves by falling one degree, but it must also be prepared.
§112. Root progressions.
Rising a fourth or falling a fifth.
§ II3. The dominant sequence.
The third in each chord prepares the seventh in the next.
§ 114 . The three inversions.
The ${ }_{5}^{6}$ and ${ }_{2}^{4}$ of common occurrence, the ${ }_{3}^{4}$ rarely employed.
§ II5. The 'Added sixth.'
It resembles $\mathrm{II}_{7}$ but resolves upon I or $\mathrm{I}^{1}$ instead of V .
§ II6. Sequences of inverted chords of the seventh.
No disjunct movement; all parts either repeat or fall a second.
§ 1 r7. Primary sevenths other than $\mathrm{V}_{7}$.
Chromatic chords, most frequently found on I and II.
§ 118. Unfigured basses and melodies.
Secondary sevenths may be freely employed provided the seventh is prepared and resolved.

## EXERCISES.

I.

1. Name the three major keys to which each of the following chords belongs, and give the symbol for each chord.

2. Write and resolve the supertonic seventh and its inversions in the keys of A major and A minor.

Introduce and resolve the following supertonic sevenths. Each example should consist of four chords, viz., a chord of preparation, the given chord, the dominant or dominant seventh, and the tonic.


Add treble, alto and tenor parts to the following basses.

(Continued on next page)
10. -Continued. -

11.

12.

13. Continue the following passages as sequences of secondary sevenths.


14. Write the dominant sequence, employing a secondary seventh for each chord except the tonic, in the key of A.

Clothe the following blank rhythms with harmon , employing the chords indicated by the symbols.

In the key of F .


In the key of E minor.
16.


I- IIo7 ${ }^{3}$ V7 ${ }^{1}$ I- I-1 IV- IIo7 V V7 ${ }^{3}$ I- ${ }^{1}$ V7 ${ }^{2}$


I-1 IIo7 ${ }^{1}$ I- ${ }^{2}$ V7 I-
17. Explain the difference between (a) a dominant and a secondary seventh; (b) a primary and a secondary seventh; and (c) a primary and a dominant seventh. Give examples.
18. Write and resolve the chord of the 'Added sixth' in the keys of G major and G minor ; and then re-write the same, but resolve them as supertonic sevenths.

Harmonize the following unfigured basses, introducing secondary sevenths.

20.

22.

23.

24.


Harmonize the following melodies, introducing secondary sevenths.

28.

30.


Clothe the following blank rhythms with harmony, introducing chords of the seventh at the beats marked with an asterisk.
31. In B flat.

32. In $\mathbf{b}$ minor.

33. Compose a double chant, or a hymn-tune, in the key of $D$ flat.
34. Write a short passage, ten or twelve measures of common time, in the key of $G$ sharp minor.

## CHAPTER XIII.

## CHORDS OF THE NINTH.

119. A chord of the ninth is farmed by adding yet another third to a chord of the seventh. The most important chord of the ninth is that formed on the dominant, and hence called the dominant ninth; other chords of the ninth are called secondary ninths. Unlike V7, which never varıes in its construction, the dominant ninth differs according to the mode in which it occurs. In the major mode (a) the ninth is a major interval, in the minor mode (b) this interval is minor.


The symbols for these chords are $\mathrm{V}_{9}+$ (or simply V 9 ) and V9- respectively.
$\mathrm{V}_{9}+$ is figured ${ }_{3}^{9}$ (the 5 being omitted), but this is usually contracted to ${ }_{7}^{9}$, the 3 -representing the leading note-being understood.* In $\mathrm{V}_{9}$ - an accidental (either a sharp or a natural, but in no case a flat) is employed instead of the 3 .

As chords of the ninth contain five different notes, cne of these, the fifth of the root, is necessarily omitted in four-part harmony. The seventh must always be present, and the third should rarely be omitted.

[^1]These chords, as they occur in the keys of (c) C major and (d) C minor, are shown in the following example.

120. It will be seen that the notes of which $V_{9}$ consists form a scale passage, being IV, V, V1 and L, of the diatonic scale. If these consecutive notes were sounded simultaneously the effect
 would be harsh in the extreme. In order to avoid this \{eature of harshness, two things are necessary, viz. :

1. The ninth should, in no case, be placed a second above the root; and
2. The ninth, if placed below the third, shound, as a rule and especially in the major mode, be prepared.
3. The natural resolution of $\mathrm{V}_{9}$ is to the tonic chord. The ninth resolves by descending one degree, while the third and seventh, as in $V_{7}$, respectively rise and fall one degree.
$\mathrm{V}_{9}$ being a fundamental discord, the ninth does not require preparation. When possible, it is generally best to prepare it ; when not possible, it should as a rule be approached from the nearest note below.

The natural resolntions of $\mathrm{V}_{9}$ in the key of C , are shown at $a$ and $b$; at $c$, the ninth (prepared) occurs below the third;
at $d_{,} e$ and $f$, the same progressions are transcribed to the key of C minor.

122. The ninth in $\mathrm{V}_{9}$ is frequently resolved while the other notes of the chord remain stationary, in which case, however, the chord ceases to be a true dominant ninth, for, to all intents and purposes the chord becomes a discord by suspension.

Suspensions will be duly explained in Chapter XV, but they may be briefly defined in the present connection. The notes immediately above and below any given note are called respectively its upper and lower auxilio $\cdots$ notes, and a suspension is the temporary displacement of a now - y one of these auxiliary notes. The auxiliary or displacing note in a suspension proper must be heard in the same part in the preceding chord, that is to say, the suspension must be prepared, but unprepared suspensions (as they are sometimes called) or accented auxiliary notes (as they should more properly be called) are also of frequent occurrence.

At $a$, the ninth resolves while the other notes remain stationary, the chord is thus changed to $\mathrm{V}_{7}$. and resolves accordingly; or it may be resolved as at $b$, the deceptive resolution of $V_{7}$; at $c$, this form of resolution is treated as a suspension, the A being prepared in the preceding chord; while at $d$, the A, not being prepared, may be regarded as an accented auxiliary note, the chord here proceeds to a pedal six-four, followed by another V 9 , resolving naturally upon I.

123. In the following example, in the chord at $a$-a chord which is apparently V9-the fifth is present, the third absent, and the ninth rises one degree in resolution. This chord, bowever, is not $\mathrm{V}_{9}$, it is $\mathrm{V}_{7}$ with the third ( L ) lemporarily displuced by its lower auxiliary note. The correct figuring in this case is $\frac{7-}{73}$, and not $\frac{93}{7-}$, nor $\stackrel{9}{7} \stackrel{10}{ }$, as might perhaps be supposed, for the A could with equally good effect appear in the tenor as at $b$, which, if the chord were V9, would be absolutely incorrect.

The symbol for this chord, the dor:inant second, is $\mathbf{V}_{\mathbf{2}} 7$.


In modern compositions the third in $\mathrm{V}_{7}$ is sometimes absolutely displaced, as at $c$, which is a variation of the progres;ion at $a$. The chord at $d$ is another example of the same, but here the A falls, and the chord may be regarded either as V 9 with the third omitted, or as $\mathrm{V}_{7}$ with the third absolutely displaced ; preferably the latter, for the third should not be omitted from V9, while a displacement is not an omission.

The chords at $c$ and $d$, in the above example, especially that at $c$, must be employed with considerable discretion by the student, and their use at examinations is certainly not to be recommended.
124. V9 has four inversions; of these the first (a) and the third (b) are the most frequently employed; the second inversion is rarely, if ever, used, as the presence of the fifth would necessitate the omission of the leading note; the fourth inversion (c) can only be used when the bass is treated as a suspension.


In the minor mode the inversions are equally available, though, as a matter of fact, they are rarely employed.

In the inversions, just as when the chord is in root position, the ninth may, if desired, be resolved while the other notes of the chord remain stationary. The ninth, however, must in no case be placed a second above the root; and except in the fourth inversion, it should not appear below the root, nor, unless it is prepared, should it be placed below the third.

The root of the chord must always be present in the inversions, otherwise the characteristic interval of the ninth is lost. Many authors allow the omission of the root in the inversions, in which case a nezo chord arises, a chord which will be considered in the succeeding chapter.
125. 'The example following illustrates some additional resolutions of this chord. At $a, \mathrm{~V}_{9}$ proceeds to a cadential six-four on the tonic, the six-four, in this case, having the effect of a double suspension; at $b, \mathrm{~V}_{9}$ is resolved ornamentally; at $c$, V9 proceeds to its first inversion, but the ninth resolving at the same time the clord becomes $\mathrm{V}_{7}{ }^{1}$; the stationary resolution of the ninth, not often used, is shown at $d$; an interesting ornamental resolution of $\mathrm{V}_{9}$ is shown at $e$, where, in the second chord, the tenor and bass notes have the effect of being passing notes; the resolution at $f$ is very exceptional, this is the only case in which, the leading-note being present, the ninth is allowed to rise ; this resolution $(f)$ is occasionally varied, as at $g$.



Of the above progressions, $a, b, c, d$ and $g$ may be transcribed to the minor mode; but the progressions at $e$ and $f$ are rarely used in the minor mode on account of the augmented second which would result in each case.
126. The principal chromatic resolutions of $\mathrm{V}_{9}$ are shown at $a$ and $b$, and similar resolutions of $V_{9}-$ are shown at $c$ and $d$. The chord of resolution in each case is $\mathrm{V}_{7}$, the roots moving a perfect fourth or fifth. These chords, it may here be said (see § 117 ) are the principal primary sevenths of the key.


At e, $\mathrm{V}_{9+}$ is chromatically changed to $\mathrm{V}_{9-}$, after which it resolves upon $I+$; the A flat, in this case, may be regarded as a chromatic passing note.

V9- is often employed as a chromatic chord in the major mode, but $\mathrm{V}_{9+}$ is not so employed in the minor mode.
127. The best progressions to Vg 9 are from $\mathrm{I}, \mathrm{I}^{1}$ and $\mathrm{I}^{8}$ (as a pedal six-four), II and II ${ }^{1}$, IV and IV ${ }^{1}$, in the major mode, and frcm the same chords, except II, in the minor. Of chords of the seventh, $\mathrm{II}_{7}$ to $\mathrm{V}_{9}$ is the strongest progression; this progression is illustrated at $a$ and $b$, in $C$ major, but it is equally available in the minor mode. V 9 may also be preceded by V or $V_{7}$, the effect, however, can scarcely be regarded as a harmonic progression.

128. V9 is rarely employed in cadences, though sometimes employed instead of $\mathrm{V}_{7}$ in the perfect cadence, but even in this case the ninth is almost invariably treated as a suspension of the octave; in this connection see also §§ 122 and 123 .

The most important sequences arising from the use of V9 are formed by chords, the roots of which move a perfect fourth or fifth. The (real) sequences at $a$ and $b$ are both formed by means of the chromatic resolution of V9, that at $a$ being a variation of the dominant sequence.

129. Secondary sevenths may be converted into secondary ninths by the addition of the ainth of the root, the fifth of the chord, as in V9, being omitted. The most important chord in this class is that on II, see * in the following example; this chord, II9, like II7, naturally resolves upon $V$ or $V_{7}$. The secondary ninth on L , being extremely harsh, is generally avoided.

The ninth, as well as the seventh, in these chords, should invariably be prepared; in other respects secondary ninths are treated like V 9 , little use, however, being made of the inversions. These chords are rarely employed in the mincr mode on account of the augmented second between the sixth and seventh degiees in the harmonic minor scale.
$\mathrm{V}_{9}+$ and $\mathrm{V}_{9}$-, though theoretically primary ninths, are always called dominant ninths. The term 'primary ninth' is alone employed to designate a chord which has been chromatically changed from a secondary ninth to a chord having the appearance of a dominant ninth, but which, like a primary seventh, does not induce a modulation, and is therefore a chromatic chord.

The following passage exemplifies the use of the two most important secondary ninths in the key of C , introduced sequen. tially, and alternating with chords of the seventh.

130. Chords of the ninth, especially secondary winths, offer the composer an opportunity to employ some of the most discordant combinations in the realm of diatonic harmony. These chords should, therefore, be used with discretion, for the effect of a progression does not depend alone upon its correctness, it depends also upon its aptness, which is largely due to a pleasing contrast in tone-color. The judicious employment of the dissonant element in music can alone ensure the true appreciation of the consonant element.

In harmonizing unfigured basses and melodies, chords of the ninth may be introduced whenever their correct preparation and resolution can be effected. They should not be introduced at every opportunity, but should be reserved for occasional use, once, or at the most twice, in a phrase of four measure?, and only then provided that the progressions of the vocal parts are natural and melodious.

## SUMMARY.

§ 1 19. Chords of the ninth generally.
The fift: of the chord is usually omitted
§ 120 . The constituent notes of $\mathrm{V}_{9}$ - IV, V, VI and I.
The ninth must not be placed a second above the bass, and if placed below the third, must be prcpared.
§ 121 . The natural resolution of $\mathrm{V}_{9}$.
Both the ninth and seventh fall, and the third (L) riscs.
§ 122. The ninth treated as a suspension.
A frequently employed form of resolution.
§123. The chord of the dominant second and seventh.
The second, which in this case is not a ninth, rises to the third.
§ 124. The inversions of V9.
$7 \quad 4$
The first, $\underset{5}{6,}$ and third, $\underset{2}{3,}$ are chiefly used.
§125. Various additional resolutions.
Stationary, ornamental and exceptional treatments of the ninth.
§ 126. The principal chromatic resolutions.
To primary seventis on I and II.
§ 127. The best progreasions to V .
From any triad which does not contain 1 ., except $\forall 1$.
§ 128. $\mathrm{V}_{9}$ in cadences and sequences.
Rarely employed in the former and in the latter only when the sequence is real
§129. Secondary ninths.
Both ninth and seventh should be prepared. By chromalic change these chords are frcquently converted into primary ninths.
§ 130 . Unfigured basses and melodies.
Chords of the ninth may be introduced whenever their correct preparation and resolution can be effected.

## EXERCISES.

## I.

1. Introduce and resolve the following chords, and in each case figure the bass and give the roots.

2. Write and resolve $\mathrm{V}_{9}{ }^{1}$ in $E ; \mathrm{V}_{9}$ in A flat; $\mathrm{V}_{9}{ }^{\mathbf{2}}$ in C sharp minor; and $\mathrm{Vg}^{\mathbf{s}}$ in F minor.
3. Criticise the distribution of the parts in the following chords.

4. Resolve this chord in at least six different $X$ ways diatonically, and in two different ways chro matically.
5. Introduce and resolve the secondary ninth on the supertonic in the key of A flat.
6. Write a variation of the dominant sequence, commencing in the key of E, employing primary sevenths and major ninths, and repeating the model at least three times.

Add treble, alto and tenor parts to the following basses.

8.

9.

10.


- The positions of the upper parts should be changed at these beats.

Clothe the following blank rhythms with harmony, employing the chords indicated by the symbols.
11. In D major.

$-\theta^{\prime}-\infty\left|-e^{\prime}-|-\infty-| |\right.$
VI IV

$$
\begin{array}{rrr}
\text { V7 } & - & \text { I } \\
2 & 3 &
\end{array}
$$

12. In $G$ minor.


I IV V9- IV ${ }^{2}$ I $I I 7^{2} V 7^{1} I \quad$ II9- $V \quad$ VITV-6 $I^{1}$


II7 V9- I II ${ }^{1} \quad I^{2} \quad$ V87 $\quad$ I
13. Explain the difference between (a) 2 dominant and a secondary ninth; (b) a primary and a secondary ninth; and (c) a primary and a dominant ninth. Give examples in A major.
14. Analyse the harmonic progressions in the folluwing exercise, giving the roots of the chords and explaining the character of the resolutions. Also write and figure the bass, and give the correct symbol for each chord.


Harmonize the following unfigured basses, introducing chords of the ninth.

16.

17.



Harmonize the following melodies, introducing chords of the ninth.
19.

20.


Clothe the following blank rhythm with harmony, intro ducing secondary sevenths and secondary nintha.
23. In E major.
24. In F minor.


25. Write a passage, regardless of rhythm, in the key of $B$, introducing an example of each of the discords which have thus far been considered, and concluding with the 'added sixth" form of the plagal cadence.

## CHAPTER XIV.

## THE DERIVATIVES OF V9.

131. If, instead of the fifth, the root is omitted from the chord of the dominant major ninth, a chord of the seventh on the leading-note is obtained; this is called the chord of the Leading seventh, but it might more properly be termed the chord of the Minor Seventh on the Leading note.

Similarly, if the root is onitted from the chord of the dominant minor ninth, a cliord of the seventh on the leadingnote of the minor key is obtained ; this is called (from its distinctive interval) the chord of the Diminished seventh.

These chords are said to be derivatives of the dominant ninth. The leading note in each case is regarded as the nominal root, while the dominant-the actual root-is said to he the generator; the term generator (see also § 90 ) signifying a note from which a chord is derived when that note is not employed in the chord.

The symbols for these chords are respectively $L_{7}$ and $L_{70}$.

## THE LEADING SEVENTH.

132. L7, being a dominant discord, naturally resoives upon the tonic chord. The seventh falls one degree; the fifth, being diminished, also (with one exception, see § $133, a)$ fails one degree; the leading-note rises to the tonic; while the third-the fifth of the generator-alone is free. When the third is below the seventh, care must be taken to avoid consecutive perfect fifths. The third in this case may either rise one degree, doubling the third in the tonic chord, or it may proceed to the dominant, doubling the fifth in the tonic chord. When placed above the seventh the third generally falls one degree.

These consecutive fifths are shown at $a$, between the treble and tenor; at $b$ they are avoided by the third rising; and at $c$ by the third falling to the dominant; at $d$, the third being above the seventh, the tonic chord appears with the root doubled.


The seventh may be placed in any part, but should not appear below the leading-note unless it is prepared. Otherwise it is not necessary to prepare the seventh, though, if not prepared, it is preferable to approach this note from below, and e-pecially is this the case if the movement should be disjunct.
${ }_{133} \mathrm{~L}_{7}$ has three inversions.
(a) The first inversion, $\mathrm{L}_{7}{ }^{1}$, occ urs on II, and the generator is a fifth below the bass-note, which in this case rises one degree to avoid the consecutive fifths. The chord of resolution is therefore $I^{1}$, and in order to avoid doubling the bass in this cloord the third in $\mathrm{L}^{1}$ is allowed to rise one degree. This is the only case in which the fifth of the leading-note is allowed to rise in the resolutions of $\mathbf{L}_{7}$ and its itversions. The treatment of IV in this resolution may be compared with the treatment of IV in the exceptional resolution of $\mathrm{V}_{7}{ }^{2}$, as explained in § 89. The fifth in this chord may of course, if preferred, fall one degree naturally as at $a a$.
(b) The second inversion, $\mathrm{L}_{7}{ }^{2}$, the most popular of the inversions, occurs on IV, and the generator is a seventh below the bass-note, which falls one degree. The chord of resolution is therefore once more $I^{1}$.
(c) The third inversion, $L_{7}{ }^{3}, 2$ chord not often employed, occurs on VI, and the generator is a ninth (not a second) below
the bass-note, which falls one degree. The chord of resolution is therefore $I^{3}$. The bass-note in L7 ${ }^{3}$ should invariably be prepared. $I^{2}$ in this case is usually treated as an arpeggio sixfour, or possibly as a passing six-four, but rarely as a cadential six-four. Care must be taken in resolving $\mathrm{L}_{7}{ }^{8}$ to avoid consecutive perfect fourths between the bass and the part which takes II.

134. The seventh in $L_{7}$ and its inversions, like the ninth ir $V 9$, may be resolved while the other notes of the chord remain stationary; the chord is then converted into $\mathrm{V}_{7}$ or one of its inversions, and is resolved accordingly; the third in L7 being no longer restricted in its progression. This form of resolution is especially desirable in the case of $L 7^{3}$ which is thus changed to $\mathrm{V}_{7}$ in root position, and so a somewhat objectionable six-four ( $I^{2}$ ) may be avoided.

135. L7 (a) as a derivative of V9, must not be confused with $\mathrm{Lo7}$ (b), as a secondary seventh, nor with $\mathrm{IIO}_{7}$ (c), the supertonic seventh of the minor mode. These three chords which are identically the same in appearance may be readily distinguished by the chord upon which they severally resolve.


Furthermore, $\mathrm{L7}^{1}$ must not be confused with IV-6, the chord of the Added sixth in the minor mode, which (see § 115) in appearance is identically the same as $\mathrm{IIO}^{1}$.

These chords are exemplified in the following passage.

$$
B
$$



$a$, the first inversion of the supertonic seventh in A minor; resol-ing on the dominant;
$b$, the first inversion of the leading seventh in C major; resolving on the first inversion of the tonic.
. $c$, the first inversion of the secondary seventh on the lead-ing-note in C ; resolving on the mediant ; and
$d$, the Added sixth in A minor, resolving on the tonic.
The melody of the above passage is necessarily somewhat momotonous, the purpose of the example being to introduce the four chords each in the same position.

The seventh in L 7 and its inversions is often chromatically lowered, the chord then becomes a diminished seventh, and is resolved as such on the tonic major chord.

THE DIMINISHED SEVENTH.
136. L70, also being a dominant discord, also naturally resolves upon the tonic chord; and whether in root position or inverted, this chord is resolved in practically the same manner as the leading seventh. The seventh in L7o, however, does not require preparation when it is placed below the leading-note.

The consecutive fifths, (see a) to which reference was made in § $1^{122}$, should still be avoided, notwithstanding that the fifth of the supertonic in the minor mode is a diminished fifth; and the same may be said of the consecutive fourths which are liable to occur in resolving L; $\mathrm{o}^{3}$, though as one of the fourths in this case is augmented, the progression is perhaps not altogether objectionable.

The effect of consecutive fifths, one of which is perfect and the other dimimished, depends almost entirely upon the
degree of the scale upon which 50 (the diminished fifth) occurs. When 50 occurs upon L, preceded or followed by $5+$ on $I$, the effect is not bad, provided that none of the rules for the resolutions of discords has been broken, as has already been seen at $b, \$ 89$. When 50 occurs upon II of the minor mode and is followed by $5+$ on I, the effect, generally speaking is bad, and especially is this the case if these consecutives occur between the extreme parts; and indeed the effect is almost equally bad when this priticular fifth is preceded by $5+$ on I, except alone in approaching L7o, when, presumably on the ground that $5+$ is foreign to the construction of this chord, no bad effect can arise from consecutive fifths in such progressions.

The following examples, being transcriptions to the key of C minor of the examples given in $\$ \mathbf{5} \mathbf{1 3 2}$ and 133 , illustrate the natural resolutlons of L7o and its inversions.


The seventh in L70, just as in L7, may be resolved while the other notes of the chord remain stationary, see example f 134 : which may be transcribed to the minur mode also.
137. L7o differs from L7 and from other previously considered chords in one important particular, namely, that its constituent notes are equidlstant; the interval between each successive third of the chord being a minor third. In other chords of the seventh the thirds vary, some being major and some minor. The following table illustrates the character of the thirds in the five most important chords of the seventh.

| $3-$ | $3-$ | $3+$ | $3+$ | $3-$ |
| :--- | :--- | :--- | :--- | :--- |
| $3-$ | $3+$ | $3-$ | $3-$ | $3-$ |
| $3+$ | $3-$ | $3-$ | $3-$ | $3-$ |
| V7 | II 7 | II 7 | L 7 | L 70 |

These intervals should be read upwards.
Furthermore, the interval between -VI and L of the minor scale, being an augmented second, and consisting of three semitones, is, in point of size, equal to a minor third ; L7o, therefore, when played in arpeggio, consists of a succession of intervals, each of which contains three semitones. It naturally follows then, if another Lio (in another key) is formed upon any sound in a given chord of L70, that both chords will consist of identically the same sounds. The notation of the chords which thus arise will be in accordance with the signature of the key in which each occurs; one or more enharmonic changes being necessary for each new chord.

The chord at $a$, is $L_{7} \circ$ in the key of $A$ minor, that at $b$, L7o in C minor; if now, the chord at $b$ is taken in its third inversion, as at $c$, it will be seen that this chord, on the piano, is identically the same as the chord at $a$; the G sharp in the latter chord becoming A flat by enharmonic change.

138. L70, according to its notation, may belong to four entirely different minor keys; and since there are twelve, and, practically speaking, only twelve different minor keys, it follows that there are three, and practically speaking, only three
different chords of L70 possible in music.
The attendant minor keys of any given major key will furnish these three chords, and by enharmonic changes each of these chords may be converted into certain other minor keys, the tonics of which (like the notes of the chord) are a minor third apart. These three chords, with their enharmonic changes, are shown in the following examples, in which, for convenience, they are written in contracted form in the treble stave, the generator of each chord being given in the bass stave. Though apparently each chord here belongs to five different keys, yet in reality there are only four entirely different keys, for the chords at $a$ and e, in each case, belong to keys which are enharmonic equivalents. The normal position of each chord is shown at $c$.


It will be : sen from the above examples, and it is interesting to note, that both the tonics and the dominants of the associated keys constitute in themselves a chord of the diminished seventh. Thus the tonics in example II-D\#, $\mathrm{F}_{\boldsymbol{*}}$, $A$ and $C$-form the chord at $c$, in example III; while the dominants in example II-C $\#, E, G$ and $B$-form the chord at $c$, in example I.
139. The key to which any given Lio belongs may be found by determining which note of the chord is $L$, and $L$ may be determined by means of the theory which is now about to be explained, the theory of the sharpest note.

Each degree of the major mode possesses a certain relative character of acuteness and gravity, L being the acutest and IV the gravest. This feature will readily be seen in the scales of $G$ and $F$, respectively, in the former of which $L$ is the only sharp note present, and in the latter IV the only flat note present. In the minor mode, $L$ is the acutest but VI the gravest. $L$ then being the acutest note in both modes, and being moreover the note upon which $\mathrm{L}_{7} \mathrm{o}$ is formed, this theory is invariably regarded from the sharp, rather than from the flat standpoint.

Double sharps are evidently more acute than single; single sharps more acute than naturals; naturals more acute than flats; and flats more acute than double flats.

Of sharps, the last sharp, according to the major signature, has the acutest character in the key. Thus, in the key of $D$, C sharp is more acute then $F$ sharp; in the key of $A, G$ sharp is more acute than both $F$ sharp and $C$ sharp, and so on.

Of naturals, the most acute is $B$, being $L$ in the key of $C$; the next most acute is E (a perfect fifth below); the next A , and so on, $F$ being the gravest of all the naturals.

Of flats, it may be said that they play a very small part in this theory, for in only one major key, and in no minor at all, is $L$ a flat, namely in $C$ flat major; $B$ flat is however the most acute of all the flats, E flat (a fifth below) the next, and so on.

The value of this theory may be tested by applying it to the chords in the above examples, 138. The student would do well to write all these chords, employing no key signature but inserting the ne:iessary accidentals, and then indicate the sharpest note (i.e. L) in eacir case, from which the generator of the chord-always a major third below Land the key in which the chord occurs, may readily be determined.
140. L70 is frequently employed in the major mode, when it may be regarded as L 7 with the seventh chromatically lowered.

The following passage illustrates the various chromatic resolutions into major keys of the diminished seventh on $\mathbf{G}$ sharp, the seventh in each case resolving with a simple ornamental device, while the other notes of the chord remain stationary.

r41. Although derived from $V, L_{7}$ and $L_{70}$ play practically no part whatever in cadences. Reference, however, may here be made to a chord having the appearance of $\mathrm{L} 70^{\circ}$, which may be employed with gond effect as at $a$, but the disjunct movement in the bass in this progression is altogether contrary to the rules which govern the resolution of L70. This chord must be regarded as an ornamental form of the 'added sixth,' $b$, the third being chromatically lowered, $c$, and the fifth dispiaced by its lower auxiliary note, $d$. In the chord at $a$, the fifth is absolutely displaced. This analysis of this exceptional chord justifies the 'skip' in the bass, and avoids the necessity of applying to the progression the somewhat objectionable termlicense.

142. Many interesting variations of the dominant sequence may be formed by the ase of $L_{7}$ and $L_{i} o$. A few of these are herewith appended; at $a$, the sequence is formed by $L_{7}$ and $I+$, this might be varied by employing $L_{i o}$ and $I+$, or $L_{i o}$ and $\mathrm{I}-$; at $b$, by $\mathrm{L}_{7}$ and $\mathrm{V}_{7}{ }^{2}$; at $c$, by $\mathrm{L}_{7}$ only; at $d$, by $\mathrm{L}_{7} o$ only; and at $e$, by $L_{;}$chromatically $c^{\prime}$ nging to L70, then resolving to $\mathrm{I}+$, followed by $\mathrm{V}_{\mathrm{y}^{3}}$.

Other variations of a similar character will readily suggest themselves, but, it may here be said, the possible variations of the dominant sequence are absolutely inexhaustible, and this will be the more readily appreciated when suspensions and auxiliary notes together with the chromatic element in harmony are added to the chords which have already been considered.

143. The best progressions to $\mathrm{L}_{7}$ and $\mathrm{L}_{7} 0$ are from those major and minor triads which do not contain $L$; also from $\mathrm{II}_{7}$ and IIo7. The bass of these chords (in whatever position they occur) should, as a rule, be approached conjunctly; if approached disjunctly, the leap should be from the opposite direction to that in which the bass of the ciord is about to move. $L_{7}$ and L7o may also be preceded by $V$ or $V_{7}$, the
effect, however, can hardly he regarded as a harmonic progression.

In harmonizing unfigured basses and melodies, $\mathrm{L}_{7}$ and L7o may be frequently employed instead of V or $\mathrm{V}_{7}$, except at cadences, and provided, of course, that the progression admits of the correct resolution of these discords. No definite rules can well be formulated in this connection. Good taste, which every earnest student must strive to possess, will alone suggest when these fundamental discords may be effectively introduced. Suffice it to say that discretion must be exercised in the employment of these chords, for the too frequent use of one particular kind of discord will result in that very monotony of tonecolor, the avoidance of which is the special purpose of the dissonant element in music.

With this chapter the subject of fundamental discords is concluded. Certain modern authorities (since about the year 1850) have advocated an extension of this subject so as to comprise chords of the eleventh and thirteenth-chords formed by the addition of further thirds to those of chords of the ninth; this theory of chord construction, however, which was altogether unknown to the greatest masters of music in the past, can by no means be claimed to meet all the requirements of the modern composer, or to account for all the progressions in modern compositions, and, therefore, it will not be considered in the present work.

The student may, at this stage, read the latter part of the Preface, pages vii to xii, and he should have but little difficulty in following the line of argument there adduced to confute this particular theory.

## SUMMARY.

§131. The Leading (or Minor) and the Diminished sevenths on 1.

L, the nominal or apparent root and $V$, the generator.
§ 132 . The leading seventh.
The fiftl and seventh hoth fall, and $L$ rises; if the seventh is placed below $L$. it should be prepared.
$\S$ 133. The inversions of 1.7 .
In $\mathrm{Li}^{1}$ the bass rises, in $\mathrm{L}_{7}{ }^{2}$ and $\mathrm{L}_{7}{ }^{4}$ it falls.
§ 134. The seventh treated as a suspension.
The chord is thus converted into $\mathrm{V}_{7}$.
§ 135 . The ambiguous character of $\mathrm{L}_{7}$
 same in notation, but differ in reso. ution.
§ 136 . The diminished seventh.
L70 is treated practically the same as $L_{7}$, but with no restriction as to the position of the seventh.
§137. L.70 as compared with other chords of the seventh.
The constituent notes of $\mathbf{L 7 0}$ are equidistant.
§ 1 38. The enharmonic treatment of $\mathrm{L}_{70}$
The three and, practieally speaking ony three, L70 chords in music.
§ 139. The the.ry of the sharpest note.
By which may be determined the key to which L70 and other dominant discords belong.
§ 140 . The use of $L_{70}$ in the maj, r mode.
With illustrative example showing enbarmonic changes.
§141. An exceptional treatment of L70.
Occasionally employed as a variation of the plagal cadenee.
8142. The use of $L_{7}$ and $L_{70}$ in sequences.
These chords are frequently employed in dominant (real)
sequences.
§ 143. The best progressions to $\mathrm{L}_{7}$ and L70
From any triad which does not contain L ; also from $\mathrm{II}_{7}$
and $110 \%$.

## EXERCISES.

## 1.

1. Write and resolve $L_{7}$ (the leading seventh) and its inversions in the keys of (a) $G$ and (b) $F$.
2. Write and resolve L70 (the diminished seventh) and its inversions in the keys of (a) $E$ minor and (b) $D$ minor.

Introduce and resolve the following chords. $\checkmark 3$.

5. Write and resolve $\mathrm{V}_{7}, \mathrm{II}_{7}, \mathrm{II}_{7}, \mathrm{~L}_{7}$ and $\mathrm{L}_{70}$, employing the note E (third space in the bass) in each case.
6. Figure and symbolize the following chords.

7. Complete the following passage by inserting the chords indicated by the symbols at the (vacant) beats marked $a, b, c_{\text {, }}$ etc., then figure the passage throughout.

8. Write a variation of the dominant sequence, commencing in the key of E , employing $\mathrm{L}_{7} \mathrm{O}^{2}$ and $\mathrm{I}+{ }^{1}$ alternatively, and repeating the model at least three times.

Add treble, alto and tenor parts to the following basses. 9.


11.

12.

18.



Clothe the following blank rhythms with harmony, employ. ing the chords indicated by the symbols.
15. In the key of A flat.



$L_{0} 7^{1}$ III VI7 ${ }^{1}$ II V7 ${ }^{1}$ I V VI II7 ${ }^{1}$ V87
16. In the key of C sharp minor




I-1 $^{1}$ IV-: IIo7 $^{1} \quad I^{2}$ V7 I-
17. Write $\mathrm{Lf}^{1}$ in the key of F , and show that it can be treated as four entirely different chords.
18. The following chords, if played on the piano, will all have the same effect. How do you account for this fact? Name the key and give the generator of each chord.

19. Define the term enharmonic; and show that the keys with three sharps and three flats, both major and minor, may be severally connected by the enharmonic treatment of L7o.
20. Show that this chord may be converted into V 7 in four different keys, if each note in turn is lowered a semitone (diatonic or chromatic as the case may be), and if certain enharmonic changes (where necessary)
 are introduced.
II.

Harmonize the following unfigured basses and melodies, introducing L7 (and occasionally L70) in the major exercises, and L7o (alone) in the minor.
21.

22.

23.

24.

25.

26.

27.

28.




Clothe the following blank rhythms with harmony, introducing the chords indicated by the symbols.
33. In the key of $E$.

34. In the key of F minor.

35. Compose 2 double chant (or hymn tune) introducing with good effect at least one enharmonic change of L;o.
36. Write a passage of harmony in the key of A minor, introducing examples of the fundamental discords which have so far been considered; and making at least one modulation to an attendant key.

## CHAPTER XV.

## SIMPLE SUSPENSIONS.

144. A suspension is the name given to a discord formed by the holding over or prolongation of a note from one chord to which it belongs into another to which it does not belong; this-the dissonan note-is then resolved by rising or falling (usually the latter) one alegree to the note to which it would have proceeded directly had it not been held over.

It has already been stated (\$122) that the notes inmediately above and below any given note are called, respectively, its upper and lower auxiliary notes, and that a suspension is the temporary displacement of a note by one of these auxiliary notes. If the upper auxiliary note is employed it is called a falling suspension, if the lower, a rising suspension." The auxiliary note must be heard in the same part in the preceding chord, that is to say, the suspension must be prepared, and it is customary, though not necessary, for the note of preparation to be tied to the auxiliary note, so that a suspension frequently takes the form of a syncopation. The auxiliary or displacing note is called the suspending note; the note which is displaced and about which (until it is heard) there is, as it were, a fceling of suspense, is called the suspended note; while the suspending and the suspended notes taken together, constitute the suspension.

[^2]The displaced note is said to be sumproded when the dissonant note resolves by descending, and it is said to be wub-suspended when the dissonant note resolves by ascending. The term 'falling' is generally omitted (being understood) when the dissonance descends, but the term 'rising' must not be omitted when the dissonance ascends. The discord, in the latter case may be termed a 'sub-suspension'.

Although suspensions were in use, as a matter of fact, more than a century prior to the establishment of fundaneutal discords, nevertheless it is customary to treat of these chords in the order adopted in the present work. A reason for so doing may be seen in the fact that $\mathbf{V}_{7}$ is more frequently employed at the present daty, and at the same time its treatment is mnre readily understood by the average student, than discords formed by suspeusions. The listorical influence of these chords is still felt in strict counterpoint, in which suspensions and, moreover, certain forms of anxiliary notes are freely employed, while the use of $\mathrm{V}_{7}$ and indeed of all forms of fundamental discords is absolutely forbidden.

When only one note in a chord is displaced it is called a single suspension, when two or three notes are displaced they are called respectively double and triple suspensions. Quadruple suspensions are possible in five-part harmony, and even quintuple suspensions in six-part harmony.
145. Before this somewhat complicated subject is considered in detail, a few of the most frequently employed suspensions will be exemplified. 'These occur in connection with the principal resolution of $\mathrm{V}_{7}$, as shown at $a$. At $b$, this progression is varied by the employment of a suspension in the treble; at $c$, by the employment of a suspension in the alto; the single suspensions at $b$ and $c$, are combined at $d$, forming a double suspension; another furm of double suspension is shown at $e$, where a rising suspension is introduced in the tenor; while at $f$, the three upper parts are all suspended, forming a triple suspension.

The D in the treble in $\mathrm{V}_{7}$ at $b$, is the note of preparation, it is tied to $\mathbf{D}$ (the suspending note) which duly falls to $\mathbf{C}$ (the suspended note), the $D$ and $C$ thus forming the suspension. The other suspensions in the above examples, it will be seen, are similarly treated.


The figures employed to represent suspensions are placed horizontally. In reading these figures it is necessary to insert the word 'to' between them; thus, the discord at $c$, is said to be a four-to-three suspension; and that at $d$, a nine-four-to-eight-three suspension. By this plan the difference between figures placed perpendicularly and figures placed horizontally under a bass-note is clearly expressed.
146. The symbols employed for suspensions are formed by placing the figure which represents the suspended note under the Roman numeral indicating the root of the chord, this figure being preceded by a small dash pointing upward or downward, according to the character of the suspension.

When the suspension occurs in the bass, the dash is placed before the Roman numeral.

The names of the suspensions in the above example ( $\$ 145$ ) together with their symbols are as fcllows:-
(b) I The tonic chord with the octave suspended.
(c) I The tonic chord with the third suspended.
(d) I I'he tonic chord with the octave and third suspended. '8 '3
(e) 1

The tonic chord with the octave doully suspended.
The tonic chord with the octave doubly suspended and the third suspended.
147. Since a common chord contains three different notes, to each of which two auxiliary notes are attached, there are theoretically possible as many as six single suspensions; these, as they occur in the chord of C (in reot position), are outlined in the following example.


Of the above, the 98 and 43 are by far the most important; the 78 is only employed when the anxiliary note moves a semitone; the 65 usually occurs in the treble only; the 23 also usually occurs in the treble only, but comparatively speaking it is rarely used; the 45 is very rarely used as a single suspension, the figure 4 (the only figure indicative of a suspending note which, it will be seen, occurs twice) almost invariably suggesting $a$ falling suspension.

These suspensions, with special reference to the 98 and 43 , will now be considered as they occur in connection with the common cbord and its inversions ; in the chapter following they will be considered in combination with one another, and in connection with fundamental discords, reference also will be made to certain exceptional and ornamental resolutions, etc.

Tbe subject of suspensions, it may be said, has never been treated exhaustively, and probably never will be so treated. The student must endeavour to grasp the general principles upon which these discords are introduced, and having accomplished this, must rest satisfied, for the real object of author and teacher alike may then be said to have been attained.
148. The following rules regarding the treatment of suspensions should be committed to memory:
I. A progression which is incorrect without suspensions, is equally incorrect if suspensions are introduced.
II. Suspensions must be prepared, that is to say, the suspending note must be heard in the same part in the preceding chord.
III. The note of preparation, when tied over, should be of equal value with, or of greater value than, the suspending note; when not tied over, it may be of lesser value.
IV. The suspending note should, as a rule occur on the accented part of the measure; in slow tempo, however, suspensions may often be introduced upon any beat
V. I'he suspended note must not be heard in another part simultaneously with the suspending note, except under the following conditions:
(a) If the oclave of the root is suspended, the octave may also be heard a ninth (or, in the case of a rising suspension, a seventh) or more below the suspending note, but not a second below, and in no case above."
(0) If the root is su-pended in the bass, the octave may be heard in any part above, if approached conjunctly and by contrary motion.
(c) Occasionally in the first inversion of the common chord, and frequently in the second, the octave of the bass is suspended, in these and in all cases in which the figure 9 occurs, the note thus represented must be placed a ninth or more, and never a second. above the bass.

[^3]149 The complete figuring for the 98 suspension is 2 3 - ; it is, however, often necessary to omit the fifth, in which case the third or the octave must be doubled.

The short dashes used in connection with the figures in suspensions are lines of continuation, and must not be confused with the dign employed for the term minor, which in fatt is never ns.al in liguring chords, but only in symbolizing thein.

The 98 suspetision $\binom{1}{8}$ has already be 1 illuse be.t at $b$, 145, where the fifth in I was omirter :
 fifth it would be necessary to take 1 ?, to
 plete, as at $a$, in the following exam, 化: a' , whe sioneremion is placed in the tenor, and care must be then that f ... root is not heard above the suspending note, hence it is rieces. $\because$ to take the treble up to $E$, doubling the third at 1 ; at, the sinension is placed in the alto, and here it is necessary to take $B$ (in the tenor) down to $G$, for $C$, a second below the suspending note, would be incorrect.

150. The first inversion of the ys suspension $\binom{1}{18}$ is Ggured 76 , the complete figuring being ${ }_{3}^{7} \mathbf{6}$. The best note to double, as a rule, is the third, though sometimes the bass is doubled, and occasionally (see $d$ ) the root. In this inversion $\mathrm{it}^{\mathrm{t}}$ is generally best to place the suspension in the treble.

It is important to distinguish between the significance of the figure 7 in this chord and in chords of the seventh. When

7 is immediately followed by 6 , as will be seen from the following examples, the fifth of the bass is altogether foreign to the chord; while in chords of the seventh the fifth is an essential note, although, as a matter of fact, it is frequently omitted in four-part harmony.

The 76 suspension occurs in perhaps its most natural form in resolving $\mathrm{V}_{7}{ }^{\mathrm{a}}$, as at $d$; there is no objection in this case, it may be said, to the $C$ in the tenor, as it is not only the root of the chord, but is also a ninth below the suspending note; and, moreover, is approached conjunctly from the leading-note; some authorities, however, object to the presence of this C , and prefer that the tenor should fall to $G$ (doubling the third, or rise to E (doubling the bass), in both' cases involving disjunct movement from B-the leading-note; others exemplify this suspension as at $e$, with the bass moving disjunctly. Care must be taken to avoid progressions such as that at $f$, where besides the consecutive fifths between the alto and tenor, there are also consecutive octaves in effect between the treble and tenor; these may be corrected by taking the tenor either down to $G$ or up to E for the second chord, or by writing the alto and tenor parts as at $g$.

The 76 suspension on 1I, when resolving on 1 or $I^{1}$, is regarded as the incomplete form of $\mathrm{V}_{\mathbf{7}}{ }^{2}$, (see § 90 ).

151. The second inversion of the 98 suspension $\binom{I^{2}}{18^{8}}$ is figured 54 , As this is really a six-four chord, it is customary
to double the bass-note, while the suspension itself is again generally placed in the treble.

The most popular use of this chord is in connection with the cadential six-four, as at $h$, the chord of introduction in which case must not be either V or $\mathrm{V}_{7}$, or i deed any chord which contains $L$. When preceded by $V$, the suspension may be treated as at $i$ or $j$, the chord in each of these cases being a pedal six-four; the concluding measures of the example at $j$ show the natural continuation of the progressions at $h$ and $i$.
(h)

$\begin{array}{lll}6 & 6 & - \\ & 5 & 4\end{array}$
(i)

(j)

52. The third inversion of the 98 suspension occurs when the root of the chord is suspended in the bass. The figuring usually employed for this suspension is $2_{2-}^{4-}$, although the complete figuring $\frac{4}{2}-$ is occasionally employed, especially when the presence of the octave of the root is desired. Another form of figuring for (single) suspensions in the bass, adopted by some authorities, though not in general use, is to place an oblique dash under the suspending note, the dash signifying that this note is to be harmonized with the notes of the succeeding chord, see $l$.

The most natural position of this suspension ('I) occurs in resolving $\mathrm{V}_{7}{ }^{*}$, as at $k$; or, if preferred, $\mathrm{V}_{7}{ }^{3}$ may be employed in its incomplete form ( $\mathrm{L}^{1}$ ) as at $l$, where the use of the oblique dash is exemplified; some authorities (again) object to the presence of $\mathbf{C}$-the inverted root-and prefer that $B$ should
fall to $\mathbf{G}$ as at $\boldsymbol{m}$; if, however, $\mathbf{B}$ were placed in the treble it would have to rise to $E$, for falling to $G$ would result in somewhat objectionable hidden consecutive fifths between the extreme parts.

153. The complete figuring for the 43 suspension is 8 -$4-$; it is, however, often necessary to omit the fifth, in which case the octave is doubled; the third must never be doubled.

This suspension $\binom{\mathrm{I}}{$\hline 3} has already been illustrated in connection with the perfect cadence, at $c, \S 145$, where the fifth in I was omitted; to include the fifth in I, the fifth in $V_{7}$ may be omitted as at $a$, in the following example. The 43 suspension is also frequently employed in connection with the plagal cadence as at $b$. The suspension itself may be freely employed in any part; at $c$, it occurs in the treble, and at $d$, in the tenor, with $\mathbf{V}_{\mathbf{7}}{ }^{1}$ and $\mathbf{V}^{\mathbf{7}}{ }^{2}$, respectively, as the chords of preparation.

154. The first inversion of the 43 suspension ( ${ }^{1} I^{1}$ ) is figured ${ }^{5}$ gured 2 , and either of the notes represented by these figures may, as a rule, be doubled.

This chord frequently occurs in resolving $\mathrm{V}_{7}{ }^{3}$, as at $e$; instead of the figures the oblique dash may be employed as at $f$, where the chord of preparation is IV; the third of the root is sometimes added to the chord as at $g$, the effect, however, is somewhat harsh, and unless it is justified by the context, it is preferable to double either the fifth or the second of the bass; at $h$, is shown the octave of the bass in $I^{1}$ suspended; this chord


155. The second inversion of the 43 suspension is figured
7. ${ }^{7}$ - As this is really a six-four chord it is customary to double the bass-note; while the suspension itself may again occur in any part.

This chord $\left({ }_{1} \mathrm{I}^{2}\right)$ is exemplified at $i$, in connection with a cadential six-four; at $j$, with a passing six-four; and at $k$, a pedat six-four. In the passing six-four, $j$, it :ill be seen that the suspension, for the first time in these examples, occurs on an unaccented beat.

156. The 78 suspension, the most important of the rising suspensions, naturally occurs on I; it may also occur on IV of the major mode, and VI of the minor. In all cases the seventh must rise a semitone, and not a tone ; the seventh must, therefore, invariably be a major interval, the minor seventh, as has been seen in connection with fundamental discords, having a tendency to resolve by falling one degree.

The conplete figuring for the 78 suspension is $\begin{gathered}78 \\ 5^{8-} \\ 3-\end{gathered}$; it is however, often necessary to omit the fifth, in which case the third or the octave must be douhled. The suspension itself may occur in any part, but it most frequently occurs in the treble.

The root position of this chord $\binom{1}{8}$ is shown at $a$; the first inversion at $b$; the second at $c$; and with the suspension in the bass at $d$. In the first inversion, $b$, some authorities object to the presence of the root $(\mathrm{C})$, here in the tenor, and would prefer either (; (doubling the third) or E (doubling the bass), but as in the case of the 76 suspension ( $\$ 150, d$ ) there is no valid objection to the presence of this note. The progression at $c$, $i_{s}$. of rare occurrence; that at $d$, may be varied by taking the treble either up to E or down to G , if the presence of the root $(\mathrm{C})$ is not desired

157. The 05 suspension, the complete figuring for which 8 is ${ }_{3}^{0} 5$ usually occurs on I and V only. It is customary to double the bass in this chord, while the suspension itself is almost invariably confined to the treble part.

The root position of thtis chord $\binom{\mathrm{I}}{15}$ is showri at $a$, the chord of preparation being IV; in place of IV, $\mathrm{V}_{9}$ may also be employed with good effect ; the first inversion is shown at $b$, the chord of preparation being $L_{7} 1$, it is necessary in this case to let the bass rise one degree, in order to avoid the effect of consecutive fifths; the second inversion with the suspension in an upper part is shown at $c$, and with the suspension in the bass, at $d$; the progression at $d$, it may be said, is of very rare - sccurrence.

${ }^{158}$. The 23 suspension is, comparatively speaking, rarely employed, and more particularly in any form other than in root position. The complete figuring for this chord is $\begin{gathered}8- \\ 5 \\ 5\end{gathered} \mathbf{3}$. Care must be taken not to confuse the significance of the figure 2 with that of the figure 9 ; the 9 naturally falls while the 2 naturally rises. This suspension usually occurs on I and V only, the suspension itself being employed almost exclusively in the treble.

The root position of this cloord $\binom{\mathrm{I}}{, 3}$ is shown at $a$, the chord of preparation being $\mathbf{V}$; $\mathbf{V}_{7}$ in this case would not be practicable, as it would be incorrect for the third (the note upon which the seventh resolves) to be present in one part while it, was suspended in another. At $b$, the first inversion of this chord is shown, and at $c$, the second inversion, the chords of preparation, $\mathrm{V}_{7}{ }^{2}$ and $\mathrm{II}_{7}{ }^{1}$ respectively, being perhaps the most effective chords available for this purpose. At $d$, is shown the octave of the bass in $I^{1}$ suspended by the note below; this chord, however, being somewhat harsh, is rarely employed.

159. The 45 suspension, the complete figuring for which 8 is ${ }_{3}^{4} 5$, is of very rare occurrence on account of its peculiar harshness. This discord, nevertheless, must be duly considered, as it plays a certain part in connection with combined suspensions,
and becomes even still more important when the chromatic element is introduced into harmony. To avoid unnecessary and extreme harshness, when this chord is employed, the suspension itself should be placed in the treble, and the other parts, especially the inner parts, should move as smoothly as possible.

The root position of this chord $\binom{1}{\frac{1}{5}}$ is shown at $a$, the chord of preparation, $L_{1}$, admitting of conjunct movement in all parts. At $b$, the first inversion of this chord is shown; at $c$, the second inversion; and at $d$, the suspension occurs in the bass; and although there is no disjunct movement in any of these progressions, yet, in spite of this, the effect of the discord is such that the progression is barely tolerable.


160 The suspensions which have so far been considered have all been illustrated in the key of C major, but the examples may in every case be transcribed into the key of C minor, for the possible suspensions in connection with the tonic chord are equally available in both modes. Many of the above suspensions may also be employed in connection with other chords; in the minor mode, however, suspensions such as the 43 on IV, and the 98 on VI, must be avoided on account of the augmented second which exists between the sixth and seventh degrees of of this mode.

## SUMMARY.

§ 144. A suspension defined.
A form of discord arising from the temporary displace ment of a consonant note.
\% 145 . Suspensions exemplified.
The note of preparation, the suspending note and the suspended note.
§ 146 . Symbols.
The marks, ${ }^{\prime}$ and ${ }_{8}$, indicate $:=$ opectively falling and rising suspensions, or super and .h-suspensions.
8147. The six single suspension:

The 98 and 4 are the mo important.
§148. Rules for the treatment of suspensions.
These should be committed to memory.
§ 149. The 98 suspension.
§ 150 " 76 "
§15I. " 6 - "
§152. ". $\mathbf{4}_{2-}$ - "
§ 153 " 43 "
§ $154 . \quad$ " 5 - $\quad$ -
§155." 76
§156." 78 "
§157. " 65 "
§158. " i 3 "
§ 159. " 45 "
§ 160 . Suspensions in the minor mode.
These are practically the same as the suspensions in the major mode, except that it is necessary to avoid the interval of the augmented second (VI to L) between the suspending and the suspended notes.

## EXERCISES.

I. Complete the following progressions.

$6 \quad 76$
$\begin{array}{ll}4 & 5 \\ 2 & 2\end{array}$
$\begin{array}{ll}9 & 65\end{array}$
778
2. Write a chord of preparation, and harmonize the following suspensions. In each case give the symbol.


By transposing each of the above bass-notes a minor third lower and at the sitme time retaining the same key signature, these suspensions may be worked in the relative minor keys. The leading-note at $b$ and $f$ will each require an accidental.
3. Write, in the key of $A$, the 98 suspension and its inversions.
4. 4. Write, in the key of E flat, the 43 suspension and its inversions.
5. Complete the following passage by introducing at $a, b$, c, etc., the chords indicated by the symbole.


II
$V$
13
6. Exemplify (a) in the key of A flat and (b) in the key of C sharp minor, the suspensions indicated by the following symbols.

| (12) | (b) | (c) | (d) | (e) | (f) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| IV; | ${ }_{18}{ }^{1}$; | $\mathrm{I}^{2} ;$ | '1]; | $I_{0}^{1}$ | VI. |

7. Prepare and resolve the following suspensions, (a) in the key of E , and (b) in the key of F minor.
(a) ${ }^{(a)}$
$(b)$
$5-;$
$\vdots-;$
$\mathbf{6}^{(c)}$
54

$(e)$
$4-;$
$2-$$\quad \begin{aligned} & (f) \\ & 9 \\ & 9\end{aligned}$
8. Figure the bass of the following passage, and symbolize the chords.


7utir8 Add treble, alto and tenor parts to the following basses.


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13.

14.

15.

16.

18.

19. Re-write Ex. 1, page 95, introducing single suspensions in root position.*
20. Re-write Ex. 4, page 127 , introducing inversions of single suspensions.*
-The melody given in this exercise may be changed, if it is desired to introduce suspensions in the treble.

The student may also re-write and add suspensions to the majority IX the exercises on figured basses at the end of chapters VI, VII, VIII,

Special exercises on the harmonization of untigured basses and melodies will be found at the end of chapter XVI. For practice in writing siagle suspensions, the student may take the exercises on unfigured basses and melodies (under part II) at the end of chapters VIII.
IX and $\mathbf{X}$.

## CHAPTER XVI.

## COMPOUND SUSPENSIONS.

161. The double suspensions in most frequent use are those which may be formed by the combination of the single suspensions, 98,43 and 98 , and which, therefore, may be employed in the principal resolution of $\mathrm{V}_{7}$ (see § 145). Occasional use is also made of the 65 suspension, but the 23 is rarely employed, while the 45 is scarcely used at all.

Compound suspensions, whether double or triple, etc., (see § 144) may, as a rule, be introduced whenever the single suspensions by which they are formed can be correctly employed; one important exception, however, will be round in the following example, where the consecutive (perfect) fourths between the suspending and the suspended notes are strictly forbidden.


It would not be practicable to ilkstrate all the possible cominations of the single suspensions, nor, indeed, would any special purpose be served by attempting to do so. The principle upon which double and triple suspensions are formed being in every case identically the same, the student, after examining the following examples, should havo no difficulty in comprehending other compound suspensions which, from time to time, may occur either in exercises or in musical compositions.

266 $\qquad$
162. The ${ }_{4}^{98} 8$ suspension, symbol ${ }_{1}^{8} \mathbf{1}_{3}^{1}$, and its inversions are



163. The $7 \underset{4}{7}{ }_{3}^{8}$ suspension, symbol $\stackrel{I}{1} \underset{3}{8}$, and its inversions are
|tok


164. The ${ }_{7}^{98}$ (or ${ }_{7}^{9} 8$ ) suspension, symbol $\underset{⿺ 8}{1}$, and its inver-
sions are shown in the following example.
|


165. The following examples illustrate double suspensions (in root position) on the tonic, formed by the use of the other single suspensions. At $a$, the fifth and third are suspended, the chord of preparation being V 9 ; at $b$, a double rising suspension is shown; at $c$, the very rarely employed 45 is introduced; the progression here, II to I, is not very good, and would be impracticable in the miner mode ; this progression, as VI to V , in the key of $F$ major would be quite correct; at $d$, the third in $I$ is doubly suspended, the doubling of the third being necessary here on account of L7, the chord of preparation, and in order to avoid consecutive fifths.

166. Various triple suspensions, the most important of which are illustrated in the following example, are also in frequent use.



The symbols for the above suspensions are as follows:-

| $(a)$ | $(b)$ | $(c)$ | $(d)$ | $(c)$ | $(f)$ | $(g)$ | $(h)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| I | I | VI | VI | $I^{1}$ | $I^{1}$ | 1 | $I^{1}$ |
| $i 8$ | 88 | 15 | 18 | 18 | 18 | 18 | 18 |
| 13 | 15 | $: 3$ | 15 | 15 | 13 | 15 | 15 |
|  | 13 |  | 13 | 13 |  |  | 13 |

167. Single and double suspensions, but not triple in fourpart harmony, may be employed in connection with the dominant seventh. The 78 suspension is, of course, unavailable in this chord, while the 45 can only be well employed in conjunction with the 23 .

The third in $\mathrm{V}_{7}$ is suspended at $a$; the fifth at $b$; and the octave at $c$; at $d$, the root is suspended in the bass; a rising suspension, 23 , is shown at $e$; and at $f, g$ and $h$, double suspensions are exemplified.



The symbols for the above suspensions are formed thus :(a) $\mathrm{V}_{7}$, (b) $\mathrm{V}_{7}$, and so on.
$13 \quad 15$
168. The following examples illustrate the use of suspensions in connection with the inversions of $\mathrm{V}_{7}$.



The student should find little or no difficulty in forming the symbols for the above suspensions; the principle of formation being the same ds that for the triad and its inversions.
169. Suspensions are occasionally employed in connection with secondary sevenths and frequently in connection with the dominant ninth and its derivatives. At $a$, the third in $V_{0}$ is suspended ; at $b$, the third in $\mathrm{L}_{7}$; at $c$, the bass in $\mathrm{L}_{7}$; and at $d$, the third and (nominal) root in $\mathrm{L}_{7}{ }^{2}$.


The symbols for the above suspensions are :-

| $(a)$ | $(b)$ | $(c)$ | $(d)$ |
| :--- | :--- | :--- | :--- |
| V 9 | L 7 | $\mathrm{~L}_{7}$ | $\mathrm{~L}^{2}$ |
| 13 | 13 |  | 18 |
|  |  |  | 13 |

170. In all the above examples of compound suspensions the notes of resolution have occurred simultaneously; these notes, however may occur successively, if so desired, as shown in the following c.: :mples.

171. When the suspended note occurs at the s: me pitch in the chord which follows the suspension, the resolution of the susperding note may be deferred. Thus, the suspension at a may be treated with a broader effect as at $b$. The passage at $c$ contains several examples of deferred resolutions of suspensions.


The figuring of the cho:d at *in the above example is unquestionably of an ambiguous character, for althuugh this chord is in reality $1 I^{1}$, yet at the same time it might readily be mistaken for IV7. The context alone will decide the real significance of the figures. In the present instance, if the chord is regarded as $\mathrm{IV}_{7}$ the resolution is very exceptional ; furthermore, IV 7 rarely appears except in a sequence of secondary sevenths and then it resoives on $\mathrm{Lo7}$; on the other hand, if the chord is regarded as $1 I^{1}$ the progression to $V_{7}$ is not only perfectly natural but is also one of the strongest harmonic progressions.
172. Suspensions are frequently resolved ornamentally, a form of resolution which has already been considered ( $\$ 83$ ) in connection with fundamental discords. The ornamental resolutions of suspensions in ordinary use are formed (a) by the introduction of another note of the chord, and (b) by the employment of auxiliary notes ( $\$ 83$ ). Another form of ornamental resolution is afforded by the use of the lower auxiliary ot the suspended note, in this case, the note $B$.

173. In sequences, especially when descending, suspensions may often be introduced; roots falling a fourth and rising a second alternately being exceptionally convenient for the employment of this form of discord. At $a, b, c$ and $d$, various single suspensions are introduced in connection with this sequence; at $e$, these are united, forming a passage of double suspensions, and concluding with a variation of the perfect cadence.

174. In order to prepare a suspension, it is often necessary, and always permissible, for a voice to change from one note of a chord to another, a device which is exemplified in the rising sequence at $a$; and occasionally, provided there is a good reason for doing so, for example, to overcome an otherwise unavoidable difficulty, two parts are allowed to cross one another, as shown in the seqrence at $b$.

175. When two or more chords of the sixth occur in succession with the bass moving conjunctly, the sixth (root), if placed in the treble, may be suspended in each chord, forming a sequential passage, as at $a$.


At $b$, is shown another treatment of the inner parts. There is little or no objection to the presence of the root in the chords marked *, as it is a ninth below the suspending note, and though approached disjunctly, yet the motion is contrary with the suspension ; similar motion in this case would not be good.


The following passage illustrates a rising sequence formed by the use of the 76 suspension; the change of position on the third beat of each measure is necessary in order to prepare the succeeding suspension.

176. Formerly, when the 76 suspension occurred on II, the fifth of the bass was frequently added, the chord being thus converted into a secondary seventh, as at *; the fifth, it will be seen, moves to the third when the suspended note appears.


The chord at * in the above example must not be regarded as a true suspension, the slur simply indicates a syncopation;
nor does the figuring justify the presence of the fifth. When a secondary seventh resolves in this somewhat exeeptional manner it should be figured ${ }_{5}^{7} 6 . L^{2}$, being the ineomplete form of $v_{7}{ }^{2}$, the passage has the effect, to-day, of being a variation of the perfect cadence preceded by $\mathrm{II}_{7}$. The close proximity of the consecutive fifths-between the temor and bass-which, under other circumstances, might be objectionable, has now no bad effect whatever; the intervening chord in faet, destroys the consecutiveness. Such being the case, the whole passage at $a . \$ 175$, may be varied by the employment of sceondary sevenths alternating with ehords of the sixth, as shown in the following example.


The student may re-write the above example introducing syncopations in the bass simultaneously with those in the treble; and again by introducing syncopations in the alto simultaneously with those in the treble and bass. Furthermore, it may here be said that many interesting variations of this sequential passage may be formed by the use of passing notes, ornamental resolutions, etc.
177. Although the examples in the present clapter (as was the case also in the preceding chapter) have all been given in the major mode, and almost exclusively in connection with the tonic ehord, yet, with few exeeptions (due to the augmented second between the submediant and the leading note) these examples are equally available in the minor mode, and in the majority of cases may be cmployed in connection with any major or minor common ehord. At the same time, it must be remembered, that as every common chord possesses a certain individuality peculiar to itself, aceording to the key to which it belongs, so likewise the suspensions which ean be effectivcly employed in connection with
a chord vary according to the progression in which the chord may bappen to occur. For example, the progression at $c, 8 \mathbf{8} 65$ which, as II to I, is possible but not good in the key of C, becomes acceptable and very good as VI so $V$ in the key of $F$.

In the minor mode, in order to introducc the suspended submediant, it is necessary to employ the subtonic, (symbol VII, the note a tone below the tonic). The chords in which the subtonic usually occurs are, III + , $V$-, VII + , and the occasionally used 17.- Suspensions in connection with these chords are exemplified in the following passages.

178. In harmonizing unfigured basses and melodies, before suspensions of any kind call be intruduced, the chords employed must be correct both in themselves and in relation to onc another. A progrcssion which is bad without a suspension is equally bad if a suspension is introduced. No new rules arise in this connection in the mattcr of harmonic progressions, the
tables in $\$ \mathbf{8} 74$ and 75 , therefore, will serve all purposes, speaking generally, for the introduction of suspensions. Conjunct movement, and this with a tendency to fall rather than to rise, is necessarily indispensable, if suspensions are to be employed. Harmonic progrcssions may be said to be welduc together, as it were, by means of suspensions, and a continuity of effect is thereby imparted to a succession of chords which could not be obtained otherwise. The spccial purpose of these discords is to-arrest the attention and to awaken expectancy, they should ${ }_{i}$ therefore, be introduced with discretion; when employed judiciously, they not only lend intcrest, but also impart strength and character, to even the simplest passages.

## SUMMARY.

§161. Double suspensions.
The most important are those which occur in the principal resolution of $\mathrm{V}_{7}$.
§162. The ${ }_{4}^{98}$ suspension.

| §163. | " | 78 <br> 43 <br> 3 | " |  |
| :--- | :--- | :--- | :--- | :--- |
| §164. | " | 9 <br> 7 |  | " |

$\S 165$. Other double suspensions.
§ 166. Triple suspensions.
§ 167. Suspensions in connection with V7.
§ $168 . \quad$ " " " the inversions of $\mathrm{V}_{7}$.
§169. " " " " V9.
§ 170. The dissonant notes resolved successively.
§ 171. Deferred resolutions.
§172. Ornamental resolutions.
§ 173. Suspensions in sequences.
§ 174. Change of position and crossing of parts in order to prepare the suspension.

8 175. Suspensions in a succession of chords of the sixth.
§ 176 The 76 on II as formerly employed.
8177. Suspensions in the minor mode.

These are practically the same as the suspensions in the major mode, except that it is necessory to avoid the interval of the augmen ed second (VI to L.), for which purpose the additional triads (pages 43 and 90 ) are occa-ionally employed
§ 178. Untigured basses and melodies.
Suspensions may be employed when they can be properly prepared and resolved ; but it must be remembered that a progression which is incorrect in itself will be equally incorrect if suspensions are introduced.

## EXERCISES.

I.

1. Complete the following progressions.


## COMPOUND SUSPRERENS.

a Write a chord of preparation, and harmonize thefollow. ing suspensions. In each case give the symbol.


By transposing each of the above bass-notes a minor third lower, and at the same time retaining the same key signatures, these suspencions may be worked in the relative minor keys. The leading-note in each example will rec ire an accidental.

Re-write the foliowing passages each five times, introducing (a) single suspensions in the treble, (b) in the alto, (c) in the tenor, (d) double suspensions in the treble and tenor, and (c) triple suspensions. Figure the chords throughout.

5. Write, in the key of $F$, the double suspension 98 and its ioversions.
6. Complete the following passage by introducing at $a_{1}, b_{1}$ c , etc., the chords indicated by the symbols.

7. Harmonize the descendug scale of A , introducing the 76 suspension on each degree except the tonic.
8. Exemplify, (a) in the key of A flat and (b) in the key of C sharp minor, the suspensions indicated by the following symbuls.

| $I$ | $I^{1}$ | $I^{2}$ | VI | ${ }^{1} \mathrm{~V}_{7}{ }^{1}$ | $\mathrm{~V}_{7}{ }^{3}$ | $\mathrm{~V}_{9}$ | $1.7^{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 18 | $i^{8}$ | 18 | 15 |  | 15 | 13 | 19 |
| 13 |  | 13 | 13 |  |  |  | 13 |

9. Prepare and resolve the following suspensions, (a) in the key of $E$ and (b) in the key of $F$ minor.

$$
\begin{array}{llllllll}
98 & 7 & 78 & 7- & 98 & 78 & 6- & 6- \\
48 & 5 & 23 & 65 & 76 & 65 & 54 & 4- \\
& & 54 & 48 & 2- & 2-
\end{array}
$$

10. Figure the bass of the following passage,


Add treble, alto and tenor parts to the following basses. 11.

12.


16.

17.

18.

19.


Harmonize the following unfigured basses.
21. M象家 22.


24.




26.


Harmonize the following melodies.

28.

29.








 Add a figured bass and two upper parts to the following given inner parts, the syncopated notes to be treated as suspen
sons. Write in open score.


34.

35.

36.


Clothe the following blank rhythms with harmony, introducing suspensions of as varied a character as possible. Each rhythm may be worked in both modes.

$$
\begin{aligned}
& 37 . \\
& \frac{3}{4}-\theta^{\prime}\left|-\theta^{\prime}-\theta^{\prime}\right|-o-\theta^{1}\left|\theta^{\prime} \theta^{\prime}-o^{\prime}-\left|-0-0-\left|\theta^{1}-0^{\prime}\right|\right.\right. \\
& -o^{\prime} \cdot e^{\prime} \mid \text { óco }|-\infty| \\
& 38 . \\
& \left.\frac{4}{4}-\theta^{\prime}\left|-\theta^{\prime} \theta^{\prime} \theta^{\prime}\right|-\theta^{\prime}-\sigma^{\prime}-c^{\prime} \right\rvert\,=d d-d-0 \cdot-\theta^{\prime}-1 \\
& -\theta^{\prime}-\theta^{\prime}-\theta^{\prime}\left|-\theta-\theta^{\prime} \cdot \theta^{\prime}\right|-\theta^{\prime}-\theta^{\prime} \cdot \theta^{\prime}|-a \cdot| \mid
\end{aligned}
$$

39. 


40.

41. Compose a double chant in the key of E flat, modulating to the dominant in the second phrase and to the relative minor in the third, and introducing compound suspensions.
42. Write a passage in the key of $C$ sharp minor, introducing various suspensions, examples of fundamental discords, and modulations to attendant keys.

## CHAPTER XVII.

## AUXILIARY NOTES.

179. The notes immediately above and below any given note are called, respectively, its upper and lover auxiliary notes (§ § 122 and 144). 'lhese ausiliary notes, having been considered in their connection with suspensions, will now be considered in their capacity of ornamental notes.

Auxiliary notes, whether employed as suspensions or otherwise, are also called unessential discords, in order to distinguish them from tbe seventh and winth in fundamental discords, which, being characteristic notes of the chord, are called essential discords.

Under the heading of auxiliary notes are included :-

$$
\text { Discords by transition-\{ } \begin{aligned}
& \text { Turning notes. } \\
& \text { Changing notes. } \\
& \text { Passing notes. }
\end{aligned}
$$

Appoggiaturas. Anticipations.
Relardations.
To the above are sometimes added Arpeggios and Pedals. The arpeggio, however, is a device employed--like auxiliary notes-to lend variety and to add interest to an otherwise simple succession of chords; while the pedal is a sustained dissonant note entirely distinct from all other discords. Arpeggios and pedals, together with certain chromatic chords (originally derived - it is presumed-from auxiliary notes) will be considered in the following chapter.

Although pitssing notes-the most frequently employed form of auxiliary notis - wcre in use, :is it mattur of fact, prior to muspensions, and suspensions. its has already been stated ( $\$ 144$ ), prior to fundamental discords, yet it is customary to treat of iliese chords in the order adopted in the present work.

In counterpoint, the historical influence of these nnessential discords is still to be seen, for passing notes are employed in the second and third specien, while suspensions appear for the first time in the fonrth species; the fiftls species (florid counterpoint) consisting of the judicious enployment of both suspensions and passing notes.
180. Discords by transition constitute the most important class of auxiliary notes; they are sub-divisible, as stated above, into turning, changing and passing notes.

A turning note* is the name given to an auxiliary note, which, having been introduced after a consonant note, immediately turns back to that consonant note; a turning note, therefore, is invariably approached and quitted conjunctly. The following exa nples illustrate the use of the upper auxiliary note, treated as a turning note, to the third, the fifth and the octave in the chord of C. At $a$, is the unadorned common chord of C; at $b, c, d$ and $e$, turning notes are shown in the treble, alto, tenor and bass respectively; at $f, g$ and $h$, double turning notes are introduced, these being always effective when they move in consecutive thirds or sixths; not only must consecutive fifths, and octaves be avoided but consecutire fourths also, as at $\dot{r}$; at $j$, turning notes are shown in all three upper parts, and hete the consecutive fourths between the treble and alto are good, since with the moving tenor part on the second and thirl beats the effect is that of two chords of the sixtlo occurring on a sustained bass note, the bass in this case being, to all intents and purposes (see $\S 203$ ), a pedial note.


- By most authorities 'turning notes' are known and calied by the general natll of amsiliary aotes; it is, howeser, both convellient and desirable to "omploy a particular mambe fin each class into which these auxiliary darord maty lx divided. The significance of the teran "turning, whith in hore angerented and employed, the athor bedieves.

 the case of 'paning noles,' but ly so domin it also durns patt of the ornamenl commonly called a 'tum.


181. When the upper auxiliary note* is employed as a turning note it is customa.y to use it in its diatonic form, but when the lower auxiliary is so employed, it is usual, except in the case of the major third of a chord, to approach and quit the auxiliary note by the interval of a semitone only. When the lower auxiliaryto the major third is employed, it may be taken as either a tone or a seminone. 'This semitonal moveinent will, therefore, frepuenty necessitate the use of chromatic notes; such notes are chosen from the ancending me odic form of the chromaic scale ( $\$ 30$ ), A sharp ( $\times$ VI) being employed. instead (if $l$ fat III) as the chromatic luwer auxiliary to $B$ (L). In the case of doubie auxiliary notes, if one part proceeds to and from a chromatic note the other part must move by semitones.

The following examples iblustrate the use of the lozer auxiliary mate ats a turning mote, in connection with the above chord of $C$. At $a, b, d, d$ and $c$, single maming notes are exemplified in the varions pats. t e mi:jur third being treated
 between the treble and alto may be takell either as at $f$ or $g^{r}$; the example at $h$ is incorrect, for since the tenor moves to a chromatie note the alto in this case must also move to at chromatic hote an at $i$; of, if preferrerd these parts in ay both move

[^4]diatonically as at $j$, such a movement, however, would savor of strict counterpoint rather than of modern harinony.

182. Althotgh the bass in the above examples has in every case been figured, yet it is the exception rather that the rule to represent unacce, ted auxiliary motes by figures, unlens indeed they possess some important and characteristle leatures. Accented anxiiiary notes must necessarily be figured. When auxiliary notes occur in the bins, the line ot continuation (\$ 73 ) is emplored.

The uper and hower ansiliaries of a onsomant note may occur in succession ats turning notes, as at $a$, in which case the resultant figure is a turn; at $l$ and $i$, dsuble turns are exemplified; the turn in the tenor at $d$ contans a chromatic upper as well as a chromatic lower anviliary note; this turn ma! be effectively combined with that in the alto at $c$, but not with that at $b$.

The student is advised not to employ, at least for the present, chromatic upper anxiliary notes. All chromatic notes, in fact, belone to the realm of chromatic h"mony, a subject whith will be considered in l'irt III of the present work ; it is, however, often impracticable, ats has already been swen, to treat of one subject completely to the exclusion of other subjects.

183. The upper and lower auxi'iaries of a consonant na:t may also occur in combination, provided that at least one characteristic note of the chord is sustained thronsthout, as shown at $a$; at $b$, however, the alditional ansiliary note in the bass forms, with the upper part., an independent chond, namely $\mathrm{V}_{7}{ }^{2}$, and such a chorl is commonly cathed a 'passing chord,' or, in this case, it might be calied a turning chord, (the significance of the term 'passing six-four,' $\S 69$, will now be seen); at $c$, two such c'ur.cis are introduced, the areble here consisting of a turn, the bass an inverted turn, and the alto a short sho.ie. At $d$, the turning notes form with the sustained bass note a chord of the diminished seventh; this, lowerer, is a fortuitous chord, for D sharp must not be regarded as the nominal root, nor must $B$ be regarded as the generator.

184. Auxiliary notes are frequently approached and occasionally quitted by clisjunct movement. If the lower auxiliary is approached conjunctly, it may at once proceed to the upper, and vice versa, provided that the intervening consonant note is then immediately heard ; the auxiliaries, in this case, are called changing notes.

Changing notes may be introduced. eithor when a consonant note is repeated, as at $a$ and $b$, where the note (; is heard on both the first and fourth beats of the measure, or. when the succeeding consonant note is at the interval of at litr! above or below the first, as $i$ and $d$. These changing woten att exemplified in the treble only, but they may be freely employed in any part.

185. An auxiliary note, instead of returning, may pass onadarls to the nearent consonant note; when treated thus, auxiliary notes are called passing notes.

Passing notes, the most frequently employed, and the most important form of discoord by transition, may be either diatonic or chromatic, and may occur on either an accented or an unaccented beat. An oppormaity is afforled tor the entployment of passing notes when the position of a chord is changed, as at $a$. At $b, c$ and $"$, passing notes are introduced in the treble, alto and tenor parts respectively; double passing notes are shown at $e$; and at $f$, passing notes occur in each part; the consecutive fifths in this last example (between the alto and tenor are not objectionable, the fifth above $L$ being diminished.



In the following !assage, at * * is exemplified the use of accented passing notes.

186. It is necessary to exercise care in the employment of these discords, for a progression which is correct without them mav be made incorrct if they are injudicionsly introduced. The progreswion at $a$, as it stamds, is food $\left(\frac{s}{6} 65\right)$, if, however, a passing note is introduced in the bass as at $b$, objectionable conserutive fithes will arise hotween the extreme parts. Again, a bad progression aill not be made rrod by the employment of passing notes; the proseresion at $;$ is bad ( 65 ), and that at $d$, with a passing note in the treble is not any better, even though the hidden fifths between the extreme parts are approached conjunctly, and cquite irrespective of the consecutive fifths between the treble and alto.
(II)
(1)


A passing note should not approach a sustained consonant note by the interval of a second, as at e, unless it is for the express, though somewhat rare purpose of passing through it, and thus crossing the parts, as at $f$.


When two passing notes occur in succession, as at $k$, the second of the two must in mo iase le treated as a turninis mote. Passing notes must invariably pasm ontartids, turning notes alone can return.


If the 13 in the above pisisise were battened, the first chord wruki become a varied form of $\mathrm{V}_{7}$. athd as such the prosere: would be quite correct.
187. In the minor mode, in order to awod the all:mented second (between -1.1 and 1 ). re ourse is made $t$, the melodio - form of the scale, which may the freely employed for this purpose, provided that thr coorla themseives are constructed from the hamonic form of the acale 's.i.). Thas, at a, the aseending form of the arate with $-\mathbb{1} 1$, is emploged; at $b$, the derending form (with \'ll, is cmployed, notwithstanding that the passing notes ancend; at $c,+1 /$ is shown in connection with the dominant seventh: and at $d$, VII, in both treble and tenor, in connection with the subdominant chord.


Turning and changing notes when employed in the minor mode are treated in a similar manner, the melodic form of the minor scale being used alone and expressly in order to avoid movement by an augmented second.
188. When passing notes occur in combination, they should, as a rule, be consonant with one another, movement in thirds and sixths beingr almost invariably very effective; movement by dissonant intervals, however, and those occasionally of the harshest character, is tolerated when combined passing notes occur in scale passages proceeding by contrary motion. The exceptional combinations which frequently arise under such conditions, as for example that at *, must again be regarded as fortnitous chords. This passame, it will be seen, concludes with turning notes in the alto and tenor, in order to. avoid crossing the parts.

18.1. In the following example various auxiliary notes are introbluced in the bass; the tenor, in this case, is written on the treble stave in order that space may be obtained for the letters ' p , ' c ' and ' $t$,' here employed to indicate respectively the passing, changing and turnng notes, as they occur in the bass.


The student shout examine the above passage very carefully, and should paty eqpecial a temtion to the figuris which, on account of the suspensions, is somewhat complex. The talae relation between the last anxiliary note-F sharp and the $F$ natural in the alto, hlould also be noticed; no bad effect arise; in this case as there is no clange of chord is $\begin{gathered}\text { ( } \\ j \text { ), the } F \text { shap being a chmmatic auxiliary note. }\end{gathered}$
190. Chromatic pasising noles, borh ancending and descending, are illustrated in tive following example in connection with the chord of $C$; at $a$, in the treble; at $l$, in the alto; and at $c$, in the tenor. The passing notes at $a$ and $b$ misy be effectively combined as at $d$; those at $a$ and $c$, however, mast not be combined on account of the consective fourths which would arise $t$ : iween two moving parts; nor, moreover, those at $b$ and $c$, on account of the resultant conseculive fifths.

## 301



19\%. When two notes occur in stic somon at the interval of a second apart, it is evident that a diatomic passing mote cannot be employed letwren them: thus, in the imperfect cadence at a, it would be impracticable to introdace: passing note in the treble. The u!per atoviliary mote to the first note, when-as in the present instance-it talls one degree may, however. be introlluced as at $b$. The auxiliary note in this case may be regirded as being a free treatment of the turning notes. as shown at $\therefore$; 11 mas, therefore, be called a fice or
 in bunt reblet andi alto


An interesting point arises in this connection. If the chanaing notes at e, marked * *, are re written, as at $/$, and at the same time a pasing mote, 1), is introduced in the bass,
together with a turntigg note， 3 ．in the tenor，then on the third beat of the measure a pasoing eloral alfears，and in this ease it is an independent chomd，$V$ ：amd matot be so regarded；the 1），in the treble，thercfore，which was dham，tht before is fow consondint，while the sncceethag note，lis is now disomant， whereas before it was consomant frome either puint of wew， the anxiliary motes are correct，thone at $f$ ，marked＊＊being free turning intes

furlier examples of free turning motes are illustrated at $\mathrm{I}^{2}$ ， where the lower ansiiary or the stececoling consonant mote is introhted；at $h$ ，where the same note is employed to form an ornanmental resolution in commection with a suspension；at $i$ ， where the thyer atmiliary of the streceeling consomint note is introdnced：and at $j$ ，where the emphostatert of the atailary mote is the comserse of that at $i$ ．The treatment of the auxiliary note at $j$ ，it may be sald，is of rare occurrence；this progresion may be comparel with that at $a, 9123$ ．

192. Auxiliary notes are trequently approached disjunctly, but, with the exception of the changing and the free turning note, they are rarely quitted disjunctly. When so approached, except in the case of the second of two changing notes, an auxiliary note is called an Appoggiatura, (It. appoggiare, to lean upon). Appoggiaturas, like passing notes, may be either accented or unaccented, and either diatonic or chromatic. If the lower auxiliary is employed, it is usually a semitone below the consonant note, except in the case of the third of a major common chord, when it may be either a tone or a semitone. Unaccented appoggiaturas of very short duration are often written as 'grace nutes.' especially in instrumental music; they are then called Acciaccaturas (It. acciaccare, to crush).

Accented appoggiaturas are exemplified at $a$, and unaccented $a^{\cdot} b$, in connection with the chord of $C$.


At $c$, chromatic appoggiaturas are exemplified, and although $E$ is the major third of the chord, yet $D$ natural would not be correct in this case, for the reason given in § 18 I .


The use of chromatic appoggiaturas frequently necessitates the skip of an augmented interval; such skips are of common occurrense in instramental music, but they are rarely employed in vocal ansic.
 present, athd to cmploy appogyiaturas, enpecially when chromatic, in the treble part allone.

Double apporgiaturas, of which the six-four at $d, \S 09$, is an example, are often emploved in combertom with the perfect cadence, as at $d$; these are sometimes, though incorrectly, called unprepared suspensions. It will be seen that instead of a double suspension, which might have lieen employed in this example, the dissonant note in each case is transferred to another part.

10.3. An Anticipation is the name given to a dissonant note introluced into one chord ard immediately preceding the same note, as a consonant note, in the cucceeding chord. An anticipation is frequently used in the perfect cadence, as at $a$; and sometimes double and triple anticipations are employed, as at $b$ and $c$.


Anticipations may be writen, a, at $d$, or the syncopations may be om tted, and the prissage writen as at $e$. When thus emphoyed. the am:icipation my be said to be the converse of a susperision.

19). I Resardation i. she name green to a disomant note introduced into a chord by being sustained or held over from one chord to which it belongs into another to which it does not beloner in this respect it resembies a suspension; it differs, however, from a suspension in the manner in which it proceeds. A reta dation mowes disjuntin: whereas the movement in a suspension is always conjumct. Retardations are sometimes called 'driving notes,' and sometimes 'lagging notes,' names with pratctically opposite meanings, and yet both more or less characteristic of this form of desoord.

Ketardations are exemonitied in the following passage.


## aUXILIARY NOTES.

Retardations, it may be said, are not of frequent occurrence, and the student will do well for the present to avoid their use as far as possible : anticipations, on the other hand, may be employed with comparative freedom.
195. In harmonizing melodies which contain what are epparent auxiliary notes, it is often possible to treat eyen the simplest diatonic passages in a variety of ways. Thus, the nelodic fragnent at $a$, which is harmonized in perhaps the most natural manner at $b$, might appear in the varied form shown at $c$, the same harmonies being employed, as shown at $d$; but to harmonize the fragment as at $c$, though possible, would not, generally speaking, be good, the three short eighthmote chords on the second part of the measure not being in uniformity with the immediately preceding long syncopated half-note chord; the passage will be far more effective as at $f$, where double turning llotes are iniroduced on t'le second beat for the purpose of imparting continuity of move nent. Another treatment of this passage is shown at $g$, where the eighth-note figure in the bass anti:ipales that in the treble, or, in other words, the figure in the treble imitates that in the bass; a similar effect of imitation is shown at $h$; here a passing modulation is made to the ley of $F$, and the $G$ on the third beat (in the treble) may be regarded as being ornamentally deferred in resolution. At $i$, the sustained $G$ is harmonized as a cadential six-four, the inner parts being varied by the aduition of auxiliary notes; and at $j$, the $G$ is treated as an inverted pedal note (§203), passing chords of sixth being employed in the lower parts.


196. In the employment of the auxiliary notes which have so far been considered, it is of primary importance to remember that they should be introduced with a certain degree of regularity. To employ several of such ornaments in quick succession for a few measures, and then not to employ any at all for two or three beats, would probably result in a spasmodic and very inartistic effect. No actual rules can be laid down in this connection. Good tarte, inborn in some musicians and acquired by others, can be the only guide. In common time, unarcented auxiliary notes may most naturally be introduced between the second and third beats and between the fourth and first beats, and when thus employed, and not
otherwise, as a general rule, they may also be employed between the first and second, and between the third and fourth beats. The old ballad melodies frequently furnish excellent illustrations of the effective employment of auxiliary notes, especially passing notes, and an examination of a few of these airs and other secular tunes should be of much advantage in the study of this subject.

## SUMMARY.

\$179. Auxiliary notes generally.
Employed chiefly for the purpose of ornament.
§ 180. Turning notes (the upper auxiliary).
§ 181. 'Turning notes (the lower auxiliary).
§ 182. The turn.
§ 183. Compound turning notes.
§ 184. Changing notes.
Proceeding from the upper to the lower auxiliary, or vice versa.
§ 185. Passing notes.
The most important form of discord by transition.
§ 186. Incorrect use of passing notes.
§ 187. Passing notes in the minor mode.
The melodic form of the scale is freely employed in order to avoid the interval of the augmented second.
§188. Compound passing notes.
These occasionally result in fortuitous chords.
§ 189. Example illustrating the use of discords by transition.
§ 190. Chromatic passing notes.
\$191. Free (or disjunct) turning notes.
Employed ornamentally between two notes a second apart.
f192. The Appoggiatura.
1193. The Anticipation.
f194. The Retardation.
f195. The treatment of auxiliary notes in melodies.
The simplest diatonic passages may often be harmonied in a variety of ways.
196. On the employment of auxiliary notes in composition.

## EXERCISES.

L.

1. Mark, employing the letters, $t, c$ and $p$, the turnimg. changing and passing notes in the following passage.

2. Re-write the treble of the following passages, and intredese auxiliary notes of various kinds; each example may be morked in several different ways.

3. Describe the errors in the following passage.


4. Complete the scale passages in the following example, employing the melodic form of the scale of C minor in each case.

5. Compare and explain the treatment of the notes in the treble in the following examples.

6. Re-write the following exercise, introducing passing and turning notes in all parts.


Add treble, alto and tenor parts to the following basses.

(Continted on next pase.)




For the purpose of practice, the above figured basses may be transposed to other keys, e, g, a second (major or minor) above or below, and in some cases a third (major or minor) above or below. The Exercises should occasionally be worked in open score. By omitting the figures, advanced students may work the exercises as unfigured basses.

Harmonize the following unfigured basses and melodies ntroducing auxiliary notes (chiefly passing notes), suspension and tundamental discords.
13.

24


15. Hymn tune. L.M.

웅․




(2)
17.

19.


# 20.  <br>  <br>  

21. 




25. Harmonize the following florid melody, employing one chord only in each measure.

26. Convert the following passage into an interesting melody by the use of auxiliary notes, and then harmonize the same.

27. Write a short tonal sequence in the key of $\mathbf{E}$, the model to consist of four chords and to include at least one passing (or turning) note between the beats.
28. Clothe the following blank rhythm with harmony, the upper line to represent the treble anc the lower line the bass.

29. Compose a long metre hymn tune (see Ex. 15) in the key of 1 ) flat, employing only common chords and their inversions, and introducing unessential discords continuously throughout.
30. Write a passag: at the key of $G$ sharp minor, in 6.8 time, introdrcing examples of all the discords which have so far been considered.
197. In natural modulation, the new key is invariably one of the attendant keys ( $\$ 54$ ). The attendant keys are also called keys of first relationship, in order to distinguish them from certain other kcys, known as keys of secund retationship. Keys which have no relationship to a given key are said to be foreign to it. Both second relationshil and foreign keys are included under the name of extraneous keys ( $\$ 99$ ).

The keys in second relationship with a given wajor key are the major keys on the major and minor inediant and on the major and minor submediant, together with the minor keys on the tonic and subdominant. The keys in second relationship with a given minor key are the major keys on the tonic and dominant only. The keys in second relationship with C major, therefore, are E major, E flat major, A major, A flat major, C minor and F minor. Those in second relationship with C minor are C major and (; major.
198. Gradual modulation from a given major key to any extrinevus major key may, with one exception, be effected by employing the following four chords :-
a. The sriginal tonic.
b. An intermediatc chord.
c. The new $\mathrm{V}_{7}$, which is often inverted.
d. The new tonic.

The intermediate chord is usually a minor triad, the root and fitth of which are common to buth keys.

In gradual modulation from a given minor key, it is often desirable to introduce after the original tonic either $\mathrm{V}+$ or $\mathrm{VI}+$, and then regarding this chmrd as a nev tonic, the intermediate clord may be taken, and so on, as above.

In proceeding to a minor key, the same chords may be em ployed as in proceeding to a major, with the exception that the final chord must, of course, be minor.

The one exception, to which referencc was made above, occurs when the new tonic is an augmented fourth or diminished fifth above (or below) the given tonic; in this case, either IV or V may be employed after the original tonic, and then regarding this chord as a new tunic, the intermediatc chord may be taken, and so on.

In gradual modulation there must be no chromatic changes whatever, but the enharmonic change of an entire chord, such as from $F$ sharp major to $G$ flat major, is oftell necessary in pro ceeding tu a distant key.

The following example illustrates gradual modulation fron the key of C. to all the extraneous major keys. At $a, \mathrm{~V}$, insteac of III, might have been taken as the ambiguous chord; and at b, IV, instead of II, might have been so employeo.


EXTRANEOUS MODULAIION.

(b)


The student should commit the above example to memory, and should especially notice the relationship between the chord of $C$ and the intermediate chord in each case. The intermediate chord may perhaps be the better remembered by the use of a symbolic formula, such as the following :-

When I is 2 - employ IV-,
that is to say, when the new tonic is a minor second (above the original tonic) employ a minor chord on the subdominant (as the intermediate chord).
199. Sudden modulation to an extraneors key may be effected by proceeding from the original tonic to the new $\mathrm{V}_{7}$ immediately, if the roots of the two chords are more than a tone apart; if the roots are either a tone or semitone apart, then a chord on IV, V or VI, whichever is the more convenient, may be employed (after the original tonic) to precede the new $\mathrm{V}_{7}$.

The following example illustrates sudden modulation from the key of $\mathbf{C}$ to all the extraneous major keys. In proceeding to the new $V_{7}$, it will be seen that one or more parts move ckro matically, and that one or nore parts remain stationary, while the other parts move as smoothly as possible. The enharmonic
change of an entire chord is sometimes necessary in proceeding to a distant key.

200. Transition, or passing into the new key without the use of the dominant chord, or of any chord derived from the dominant, is exemplified in the following passnge. The enharmonic change to the key of $E$ is here necessary in order to avoid the key of F flat, a key not recognized in music. Changes of key by transition almost invariably occur in connection with keys of second relationship.

201. Many interesting real sequences may be formed by modulation. In the following examples, $a$ and $b$ are variations of the dominant sequence; $c$ is a rising sequence, and $d$ and $c$ are founded respectively upon the first and last modula.ions in the example in $\$ 198$.


The enharmonic changes in the following examples are rendered necessary in order to avoid keys with more than seven sharps or flats; such changes must not be regarded as enharmonic modulation, a subject to which reference has been made in Chapter XIV, but which_will be considered in detail in Part III.


Modulations are ocrasionally efferted by the use of Vo, I.- and Lyo; the student, however, will ilo will 10 confine his altemion to the use of $\mathrm{V}_{7}$, until he has mastered the various kinds of modu'ation which ave so tar been considered; and to employ other chords derived from $\checkmark$, only when he feels assured lhat they can be inlroducied with grood effect in the place of ilie more convemional 77.
202. An Arpeggio is the name given to the notes of a shord when heard in succession. The turm arpegpio is derived rom the Italian arpa, a harp, on whish instrument it is customary :o play chords in this manner. Arpeggios are empluyed for the purpose of ornamentation, and since they have already been exemplified in $\S \S 69,73,83$ and 91 , it will be necessary now only to state the conditions under which they are employed, and these may be briefly summed up in the rule that a progression which is incorrect in itself is equally incorrect if converted into an arpeggio.

There are doublless many exceptions to this rule in the works of the great masters, and especially in insirumental compositions, where arpeggios often of a very elaborate character are introduced; the student, however, should only empluy arpeggios in accordance with the above rule, at least for the present.

The arpeggio in the treble at $a$, is incorrect, oll account of the doubled L, and the consecutive octaves with the tenor; these
faulis are corrected at $b$; at $c$, although there are no direct consecutives, yet the effect is very bad ; this effect is represented at $d$; at $e$, the effect is good, notwithstanding that a C is heard in the trethe ayannst the sustained C in the bass, followed, on the fourth beat, by ant $\mathfrak{F}$ in the ireble against the sustained $F$ in the bass; the effect of the passage may be represented by eithel the progressivis at $f$, or that at $g$.

203. A Pedal (Lat. pes, a fuot) is the name given to a note which ts sustained through a succession of three or more chords. The term is also employed in reference to certain chords, and also in reference to the passage which is constructed upon or in connection with the sustained note.

The origin of the term 'pedal' is probably to be found in organ music, in which the base of the harmony in usually played on the pedala, and in which pedal passages are of conimon ocevrionce: sillh pasaages, indeed, are olten called 'orkan points,' the lerill ' point 'indicating a note, as in counterpoint, which is a coutraction of pint-counter-point, that is to say, note-agrinst-note.

Pedal notes most frequently occur in the bass, either 1 or V , and rarely any other note, teing employed for this purpose. When occurring in any part uther than the bass, the sustained note is called an inverted pedal. If two pedal passagis are introduced into a composition, one on $V$ and the other on $I$, that on I should appear last. Occasionally both V and I are einployed simultaneously as a double pedal, in this case I must, of course, he placed below V. Pedal passages usually commence and almost invariably conclude with a chord of which the pedal note forms an essential part.

A pedal chord is the mane given to a fundamental discord whose root (or generator) is the perfect fifth of the pedal note over which it occurs. The pedal chord at $a$, is $\mathrm{V}_{7}{ }^{1}$; $\mathrm{a}: b, \mathrm{~V}_{7}{ }^{2}$; and at $c$, L.7.


The chord at $k$, since $V$ is omitted, may also he regarded as $\mathrm{L}^{1}$, in which case it would be equally correct for the alto and tenor notes, instead of fal ing, to rise one degree. The significance of the term 'pedal six-four' will now be seen, fur, with the exception of the tenor note, the chord at $c$ is identical with that at $b$, in $\S 69$. The above examples are equally available in the minor mode, but the chord at $c$ would then be converted into L. 70 .

An inverted pedal is exemplified at $d$, and a double pedal at e; the chord at * is an inversion of the German form of the augmented sixth, a chromatic chord which is explained in $\$ \mathbf{3 0 8}$.


The following example illustrates a dominant pedal, followed by a tonic pedal, with a modulation over each.

204. When the pedal occurs in the bass, the part immediatels above the pedal becomes for the time being the real bass. and must follow the rules which relate to hass progressions. If a pedal note is extended for several measures, it is often more convenient to figure this, usually the tenor plart, instead of figuring the bass-the pedal. The chords employed in a pedal passage should as much as possible lic confined to the key to which the pedal belongs ; modulations to closely related keys are permis. sible, but in every case they should be transient.

A pedal note, instead of being sustained, may he contınually repeated, either on successive beacs ur alternate beats, or by the use of syncopations hetween beats. Thesc repctitions may also be varied by the use of auxilisry notes, while, especially in instrumental music, the pedal note often appears in the form of an extended shake; when thus treated it is called a florit pedal.
205. The constant use of the s.me auxiliary note or notes in connection with frequently employed harmonic progressions will give rise to ccrtain chords, which, although introduced in the first instance as fortuitous chords, will in due course become independent and gencrally accepted chords. Such chords will be chromatic chords if one or more chromatic auxiliary notes are employed.

Although the chromatic element in harmony will be considered in detail in Part Ill of this work, yet it will be advisable to refer in the present chap:er to a few of thosi chords, the origin of which is presumably due to the empluyment of chromatic auxiliary notes.

The chromatic chords in most frequent use are
The Augmented triad,
The Neapolitan sixth,
The Augmented sixth, The Primary seventh, and
The Diminished seventh.
Some of these chords, namely, the Augmented triad, the German sixth (a form of the augmented sixth), and the Diminished seventh play a very important part in enharmonic modulation, a aubiect which will also be considered in Part IIL.
206. The Augmented triad usually occurs on I, as at a. and on $V$, as at $b$, in the major mode ; and it is often employed in connection with $\mathrm{V}_{7}$, as at $c$; it is also found occasionally on IV of the major mode, but not on any other note, and not in the minor mode at all except in its normal position on III.
(a)
(b)
(o)


A chord having the appearance of being the first inversion of the augmented triad on III of the minor mode is shown at $d$; this, however, is an independent chord (the dominant minor sixth, $\mathrm{V}_{6-}$ ) and will be considered in due course (in Part III) under the heading of 'Modified chords.' It is frequently employed in conjunction with $\mathrm{V}_{7}$, as at $e$. The progressions at $d$ and $e$ should be compared with those $b$ and $c$.

207. The Neapolitan sixth occurs on IV in both modes. The third and the sixth in this chord are both minor, and it is custonary to double the bass-note. The chord usually proceeds to a cadential six-feur as at $a$, or to $\mathrm{V}_{7}$ directly as at $b$, or, occasionally to V , as at $c$. These progressions are equally availa ble in the minor mode.


The false relation between the treble and tenor at $c$ is not objectionable, as it does not suggest ambiguous tonality. The somewhat exceptional interval of a dintinished third in the treble in this progression should not pass unnoticed. The perfect cadence, when preceded by the Neapolitan sixth, as at $b$ and $c_{\text {. }}$ on account of the peculiar plaintive effect, is sometines called the Pathetic cadence.

The best prngressinns to the Neapolitan sixth are from I and I 1 , and possibly IV, in the major node, and trom the same chords, together with VI and possibly $11 o^{\prime}$, in the minor. The sixth in this chord is almost invariably the best treble note, and the bass should a'ways be doubled.

The correct symbol for the Neapolitan sixth is $-1 I+{ }^{1}$; but N6 may, if preferred, be employed instead.
208. The chord of the Augmented sixth most frequently occurs on -VI, the minor second above V , ill both modes. It is found in three distinct forms, these are generally knnwn as the Italian, the French and the (ierman. I'hese forms are respectively shown at $a, b$ and $c$.


The augmented sixth, in each of its forms, like N6, is chiefly employed as a pre-cadential chord. In the following example, at d, the Italian form of the chord is introduced, but either the French or the German form might be employed instead with equally gocd effect.


The Italian and French forms may resolve upon V or (by chromati resolution) on $\mathrm{V}_{7}$ arrectly; but if the German form is resolved in this way consecutive perfect fifths will arise.

The best progressions to the chord of the augmented sixth arc from $I$, the bass s.: ${ }^{\text {in }}$ ping either up a minor sixth or down a major third, and from $1 V^{1}$, when all parts may move cozjunctly. The German form may also be approached from N6.

If, in the German form, the interval of the augmented sixth is enharmonically changed to a minor seventh. it will be seen that the chord is converted into $\mathrm{V}_{7}$ of that key of which $\mathrm{N}_{6}$ is $\mathrm{I}^{1}$. This enhar:nonic modulation is exemplified at e. In like manner $\mathrm{V}_{7}$ may be converted into a German sixth, as at $f$
(e)
(f)


Reference to enharmonic modulation has already been made in connection with the chord of the Diminished seventh; this subject will be considered in detail in Part III.

Any note of th.ese chords may be effectively employed in the treble.

These chords are usually employed in their normal position, as shown at $a, b$ and $c$; they are occasionally inverted; an example of the third inversion of the German sixth will be seen at $d, \S 203$.

The correct symbols for these chords are, for the Italian, - VI6x; for the French, -VI6x ; and for the German, -VI6 $\underset{5}{ }$; but the following symbols may, if preferred, be employed instead, It6, Fr6 and Gn6, icspectively.

Chords of the augmented sirtis occur occasionally on other notes, such as $-I I$, and IV, but these will be considered in a later chapter, suffice it for the present to add that in resolving these and all chords which contain chromatic notes, as a general rule, a chromatically raised note has a tendency to rise, while a chromatically towered note has a tendency to fall.
209. Primary sevenths; as chromatic chords, usually occur on I and II, in both modes, and, though rarely employed, they are possible also on III, VI and L. Reference has been made to these chords in $\S: 17$, where it was shown that a primary seventh is identically the same as $V_{7}$ in construction, but that it differs in resolution. Primary sevenths never induce a modulation.

The following are the must frequently employed resolutions of the primary seventh on $I$, at $a$ and $b$, and of the primary seventh on II, at 6 and $d$.


The symbols for these chords are respectively $\mathrm{I}+7$ - (or simply $\mathrm{I}_{7}-$ ) and $\mathrm{II}_{+7}$.
$\mathrm{II}+7$ is frequently employed as a pre-cadential chord, and for this reason is the most important of all the chromatic primary sevenths

Primary sevenths are susceptible of inversion, and the second inversion, like $\mathrm{V}^{\mathbf{7}}$, may be employed in its incomplete form, the root being omitted.

The best progressions to primary sevenths, on whatever degree of the scale they may occur, are from major or minor triads or their first inversions with the root movement a perfect fourth or fifth; roots falling a third or rising a second are also good. Thus, II +7 may be approached from VI or V (the strongest progressions), from IV (with chromatic movement) or from I ; and possibly from II-, with roots stationary.
210. When a ninth is added to a primary seventh the chord is converted into a Primary ninth, major or minor, as the case may be ; and when the root of a primary ninth is omitted, 2 chromatic chord of the seventh remains, such a chord being termed a derivative of ? primary ninth, just as $\mathrm{L}_{7}$ and Lyo are derivatives of V9. The chord derived from a primary major ninth is called a chromatic minor seventh, and that derived from a primary minor ninth, a chromatic diminished seventh; in each case the fifth of the note upon which the seventh is formed is a diminished fifth, while the third is necessarily minor.

> These chords will be considered in detail in Part III; in the present chapler reference will be made to one chromatic chord of the seventh only.

The most important of these fundamental chromatic uiscords is the diminished seventh, derived from the supertonic minor ninth. , Like the chord of the Augmented sixth, it is very fre. quently employed as a pre-cadential chord, as at $a$, where it resolves upon a cadential six-four. It is often introduced as at $b_{1}$ where the E flat is written as D sharp; in this case the chord
may be regarded either as a 'passing chord,' or as the diminished seventh, derived from the primary ninth on L, $\$ 203$.


The progression at a is equally available in the minor mode. The notation of the chord at 6 would be incorrect in the hey of C minor, for it is an inviolable rule that no aegree of the scale may be enharmonically chansed except for the purpose of modulating to an extraneotis key.

The symbol for the chord at $a$ is $\times I V_{70}$. The name usinally given to this chord is 'the diminished seventh on the chromatically (or, accidentally) raised subdominant'; in the present work it will Le called 'the diminished seventh on the interdominant,' the term 'interdominant' heing employed as a technical name for the chromatic note which occurs betzeen the sulde inant and the dominant. It has already been stated (§ 31) that this note, $\times I V$, like the subtonic, VII, is never enharmonically changed (without cffecting a modulation), and that these notes are called perfect chromatics in order to distinguish them from the other chromatic notes of the key, -II, -III, -VI, which may be enharmonically changed to $\times I, \times I I$ al:d $\times V$, respectively.

The symbol for the diminished seventh derived from the primary ninth on !, is III 7 o.

211 . In concluding this brief refercnce to the more important chromatic chords-more important only because more frequently employed-it is interesting to note that the three diminished seventhe - III万o (generator I), b, L7o (generatos

V, the fifth of I) and $c$, XIV 70 (gerarator II, the fifth of V) comprise all the notes of the harmonic form of the chromatic scale, $d$, (§ 29).

212. Auxiliary notes play an important part in both real and tonal sequences ; innumerable variations indeed may be formed from even the simplest progressions of cominon chords, while the dominant sequence in particular lends itself to a practically inexhaustible variety of treatments. It would be superfluous, after the copious illustrations of the use of auxiliary notes which have already been given, to exemplify them further in connection with ordinary sequences, but reference may here be made to the Rosalia, the name given to a passage in which a certain figure is repeated scveral times, being transposcd usually one degree higher in each repetition.

The term 'Rosalia' originated from an Italian folk-song entitled - Rosalia mia cara,' which was constructed upon this principle of repetition. In Germany such a passage is called a 'Vetter Michel,' a term which also originated from a song of siinilar construction. Too much repetition in musical compositions evinces a lack ot inventive power on the part of the composer, these terms, therefore, (and especially the latter) are frequently used with a somewhat derisive significance. $r$

The following passage illustrates a Rosalia. In no case, it may be said, should the model be repeated more than twice, unless indeed an effect verging on the ludicrous is especially desired. It will be seen in the present instance that whereas the first repetition is an exact transposition of the model into the key of the supertonic major, the second repetition is a transcription (rather than a transposition) of the same into the key of the mediant minor.

213. When an accidentaliy chinge d note occurs in a nelody or an unfigured bass it is necessary in the first place to consider its character, whether it is diatonic or chromatic, and if the latter, whether it is an auxiliary note or whether it forms part of a chromatic chord. Such a note may often be treated in a variety of ways, thus, the $F$ sharp in the fullowing melodic fragment

may be regarded, $a$, as a chromatic turning note; $b$, as II in E minor ; $c$, as L in ( F major ; or $d$, as the (nominal) root of $\mathrm{L}_{70}$ in the key of G . These various treatments of the F sharp are exemplified in the following passage, where the above fragment is repeated continuously in the treble. The G in the bass at $d$ is a pedal.
(11)
(i)
(c)


214. A Ground bass (or simply, a Ground) is the name given to a short passage, usually of from four to cight mcasures in length, which is repeated scveral times in the bass, the superimposed harmonies at each repetition being varied, either by the employment of suspensions or auxiliary notes, or, through changing the function of a bass-note, by the employment of an entircly different chord. In harmonizing a ground bass it is customary to conceal as completely as possible the point at which - each repetition of the passage in the bass commences.

The three bar phrase

forms the basis upon which the followirid 'ground' is constructed. This phrase, it will be seen, is repeated five timcs (being heard six times in all), and as it ends on V, a Coda of three measurea $t$ is added in order to form a satisfactory conclusion.



## SUMMARY.

§ 197. Key relationship in general.
Keys of first relationship (attendant keys), of second relationship, and foreign keys.
§ 198. (iradual modulation to extraneous keys.
An intermediate chord and no chromatic changes.
§ 199. Sudden modulation to cxtranenus kejs.
A chromatic change to be made in approaching the new V7.
§ 200. 'Transition.
Passing abruptly into the new key without the use of a dominant chord.
§ 301. Sequential extraneousjmodulation.
§ 202. The Arpeggio.
§ 203. The Fedal.
Pedat notes, churds and passages.
§ 204. The real bass in pedal passages.
§ 205. The Chromatic chords in most frequent use.
§ 206. The Augmented triad.
§ 207. The Neapolitan sixth.
§ 208. 'The Augmented sixth, Italian, French and German forms.
The enharmonic treatment of the Gernan sixtl.
§ 209. Chromatic primary sevenths, other than V 7 .
§ =10. Chromatic primary ninths, other than $\mathbf{V G}_{\boldsymbol{f}}+$ and $\mathrm{V}_{\mathbf{9}}$-.
The chromatic minor and diminished sevenths, with special reference to $\times$ IV 70 .
§ 211. The Harmonic form of the chromatic scale as derived from chords of the primary ninth.
§212. The Rosalia.
§ 213. The treatment of chromatic notes in melodies.
§214. The Ground Bass.
This simple form of composition should be constructed so as to form one continuous passage, the point of repetition being concealed as much as possible; while the various harmonizations of the theme should possess an ever increasing interest. The Ground frequently concludes with a Coda.

## EXERCISES.

## I.

Write the following modulations, making no chromatic changes whatever, and employing as few chords as possible in cach case.
1.
2.
3.
$\checkmark$ a. D to E flat.
a. F sharp to C .
a. D flat to $D$.
b. F to G .
c. $G: 0 \mathrm{~B}$ flit.
b. 1) flat 6 E E flat.
b. C flat to C sharp.
d. B flat to D .
c. C sharp to E .
c. A flat to $\mathbf{B}$.
e. Eiflat to $A$.
f. A to F .
d. Gito B .
e. 1) to A flat.
d. E to A flat.
g. A flat to F .
h. E io D.
$i$ B flat to A.
f. I to D flat. f. E flat to B .
$\therefore$ A to F sharp. g. I: to 1 ) flat.

No enlarmonic changes will be necessary in making the abone modulations, except in question 3.
4. Reverse the order of the keys at $a, b, c$, etc., in questions
$\checkmark$ 5. 1,2 and 3 respectively, and then connect them by sudden 6. modulation, in each case making one or more chromatic 6. changes, and enharmonic changes also when necessary.
7. Moclulate gradually to the key of C major from the following minor keys: (a) B, (b) F sharp, (c) C sharp, (d) G sharp, (e) $\mathbf{C},(f)$ B flat, (g) E flat.
8. Connect the following minor keys hy sudden modulation : (a) E and F, (b) D and E, (c) B and I), (d) D and F sharp, (e) F and B, $(f)$ E and C, $(g)$ B flat and G, ( $h$ ) C sharp and B, (i) G sharp and G.
9. Writc a phrasc of four measures commencing and ending (with a perfect cadence) in the key of B flat, introducing a sudden modulation to one of the major kers in second :elationship, and returning therefrom by gradual modulation.
ro. Modulatc from $\mathbf{B}$ minor to B major and back to $\mathbf{B}$ minor, and then to $F$ sharp major, $F$ sharp minor and back again to $\mathbf{B}$ minor, one continuous passage ; and conclude with a plagal cadence, and the Tierce de Picardie.

Continue the following passages, maintaining the style as far as possible and introducing the modulations to and through the keys as indicated. Each exercise should conclude in the original tonic key.
11. $\mathrm{B}+, \mathrm{C}+$, and B flat - (about eight measures).

12. A flat,+ D - and $\mathbf{F}$ sharp + (about eight measures).

13. $\mathrm{B}+, \mathrm{F}-, \mathrm{E}+$ and $\mathrm{C}-$ (about twelve measures).

14. C sharp,$+ \mathrm{F}+, \mathrm{G}$ flat,$+ \mathrm{B}-$ and $\mathrm{G}-$ (about sixteen measures).

15. $\mathrm{D}+, \mathrm{B}$ flat,+ A - and $\mathrm{A}+$ (about twelve measures).

16. $\mathbf{E}+\boldsymbol{E}$ flat + , $i$. sixteen measures).

17. Re-write the following passage, introducing arpeggio movement of a simple character in the upper parts.

18. Exemplify ( 1 ) in the key of $E_{1}$ and (2) in the key of $F$ minor, the pedal chords $\stackrel{7}{{ }_{2}^{7}}$ and $\underset{4}{\frac{7}{6}} \underset{2}{4}$
19. Name the following chromatic chords, faure Then $=$ vets. or genasotion

20. Introduce and resolve the above chords, employing in each case not more than six chords, beginning and ending with the tonic.
21. Construct a Rosalia from the following model, and add a few measures as a coda, concluding with a perfect cadence.

22. Clothe the following blank rhythm with harmony in the key of $G$, employing the chords indicated by the symbols

23. Continue the following sequence (on a dominant pedal) conclude with a perfect cadence, and figure the bass throughnut.


Add treble, alto and tenor parts to the following pedal passages. The tenor must be a correct bass to the upper parts.
24.

26. Add four upper parts-first and second treble, alto and tenor-to the following pedal passage.


Add treble, alto and tenor parts to the followirg basses.

28.

29.




81.



32. (Tisto zolo.)

(Continued on next page).


For the purpose of practice, the above figured basses may be transposed to other keys, e, g, a second (major or minor) above or below, and in some cases a third (major or minor) above or below. The Exercises should occasionally be worked in open score. By omiting the figures, advanced students may work the Exercises as unfigured basses.

## II.

Harmonize the following unfigured basses and melodies, introducing auxiliary notes and (occasionally) chromatic chords.
83.


## 84.


85.

36.


38.

39.


40.


44.




Harmonize the following ground basses. Each bass should be treated in at least four different ways, (1) with simple chords, (2) with suspensions, (3) with auxiliary notes, and (4) with chromatic chords. Modulations to attendant keys may also be introduced. A short coda should be added in each case.


51. Modulate-
(a) from $D$ to $D$ flat
(b) from B flat te B
(c) from E flat to A
(d) from A flat to $E$

| by | ( ${ }^{(a)}$ |
| :---: | :---: |
|  | (b) Gn6 into |
|  | (c) II |
|  | (d) Gn6 |

52. Clothe the following blank rhythm with harmony, writing the first and second measures on a dominant pedal, and the third and fourth on a tonic pedal.

53. Compose a passage in the key of $A$, introducing extraneovs modulation together with chords and progressions which have been considered in the present chapter.
54. Classify and describe the various discords employed in music.

Set the following lines to music, in each case introducing auxiliary notes and occasionaliy chromatic chords.
55. He prayeth best who loveth best

All things both great and small.
Coleridge.
56. Row, hrothers, row I the stream runs fast,
'The rapids are near, and the daylight's past.
Moore.
57. If nature put not forth her power About the opening of the flower, Who is it that could live an hour?

Tennyson.
58. Let us, then, be up and doing With a heart for any fate ;
Still achieving, still pursuing, Learn to labour and to wait.

Longfellow.
59. Yet many a minstrel, in harping, can tell, How the Red-cross it conquered, the Crescent it fell; And lords and gay ladies have sighed 'mid their glee, At the tale of Count Albert and fair Rosalie. Scott.
60. " : And may at last my weary age

Find out the peaceful hermitage, The hairy gown and mossy cell, Where I may si: and rightly spell Of ev'ry star i:a2t Heav'n doth shew, And ev'ry herb that sips the dew ; Till old Experience doth attain 'oo something like prophetic strain.

## APPENDIX II.

## FIGURES.

The figures employed in Harmony represent the various intervals as they exist between the bass and the upper parts of a chord. They do not definitely determine the character of a chord, but simply indicate the notes that are to accompany the bass.

Figures appear to have been first used about the year 1600 by Monteverde and his successors. They rapidly met with the approval of musicians generally, and their use to-day may be said to be universal. At one time the accompaniment to songs and choruses, etc., consisted entirely of a figured bass part, the character of the accompaniment being left to the taste and discretion of the performer. Such, for example, was the plan frequently adopted by Bach and Handel in their great choral works. With Beethoven and his contemporaries, however, it became the custom to write independent accompaniments; figures in this connection, therefore, gradually passed out of use, and at the present time, it may be said, they are only employed in the study of the theory of music.

It was the custom formerly to place the figures above the bass stave, but now, on account of the general use of close score in preference to open, the figures are almost invariably placed below the bass stave, in order not to interfere with the notes of the tenor part.

In the case of the common chord it is usual to employ no figures at all, nor a mark of any kind, unless another chord occurs upon the same bass note, either before or after, when the figures 8,5 or 3 , or any two of these figures, or all three of them are employed to indicate the use of this chord.

## MICROCOPY RESOLUTION TEST CHART

## (ANSI and ISO TEST CHART No. 2)



Modern authors sumetimes employ one of these figures to indicale the treble-note for the first chord of an exercise; this innovation, however, is not in general use, nor is it to be recommended, as it affords malerial assistance to the student, and it is questionable whether such assistance is either desirable or advisable.

Chromatic changes are indicated by a designating accidenta! placed immediately before the figure represeiting the note that is to be changed. In the case of the third of the bass, it is customary to omit the figure 3 (the figure being understood), and to employ the accidental alone; the figure 3 , however, should not be omittel when there are other chords upon the same bassnote as a misconception of the significance of the accidental might easily arise. When the bass-note of a common chord is chromatically changed, it is understood. that the octave of the bass is also t, be changed accordingly, and it is unnecessary to indicate the change in the figuring.

Formerly, when a note was to be chromatically raised, it was often the custom to employ a figure with an oblique stroke drawn across it, the figure apparently leeing crossed out; but this device is rapidly passing out of use, probably on account of the confusion which is liahle to arise in M. S. music, where anything crossed out presents the appearance of being incorrect. In this connection it may he mentioned tbat the figure 4 , with an oblique stroke drawn through it, indicated the third inversion of the dominant seventh.

An oblique dash, instead of figures, has been employed by some authorities to indicate a suspension in the bass (see page 245), but this device has failed to meet with general acceptance, probably on account of its limited application, for, while it serves its purpose well enough when thcre is a suspension in the bass only, it cannot be used when one or more suspensions occur at the same time in the upper parts.

In no case is it necessary to employ a figure bigher tban 9 ; this figure indicates a falling dissonance, and when employed, the note thus represented must be placed at the interval of a minth
or more, never that of a second, above the bass-note. The figure 2 has a double significance; when followed by 3 (page 248), it indicates a rising dissonance in one of the upper parts, and when followed by a dash, as in the chord $5_{2-}^{-}$, or not followed by any figure or mark at all, as in the chord ${ }_{2}^{4}$, it indicates a falling dissonance in the bass. The note represented hy the figure 2 , may be placed at the interval of a second, a ninth or even more alove the bass.

In the days when the inajor and minor scales were known, respectively, as the sharp and flat scales, the terms 'sharp' and. 'flat' "ere often employed instead of the terms 'major' and 'minor 'in reference to intervals. Consequently the signs $\ddagger$ and $\gamma$ were sometimes used when, at the present time, the sign $\square$ would be regarded as correct. To represent $F$ sharp, the minor third of $D$ sharp, by the figuringy $)^{3}$, or $B$ flat the major sixth of $D$ flat, by the fignring $\# 6$, is an anomaly which fortunately no longer exists.

When it is desired to retain a note of one chord through one or more succeeding chords it is customary to employ a line called 'the line of continuation,' instead cf a figure. This line is also employed to indicate the retention of a complete chord when, as in the case of a triad, the chord is not figured, or as in the case of a chord of the sixth or seventh, when onc figure alone is employed. If a chord is represented by two or three figures, it is necessary to employ respectively two or three lines of continuation. These lines, in every instance, are placed under the notc or notes which succeed the chord the notes of which are to be retained.

The explanation here given is in accordance with the original significance of the line of continuation. Certain modern authorities, however, have thought well to use this line in another sense, namely, to place it under the chord, the notes of which are to be retained, as well as under the succeeding chord or chords; but to this use of the line there are some valid objections.

In the first place it is liable to cause confusion for the bass-note of a common chord is sometimes not figured or marked at all, while, at other times it is underlined; whereas, the older plan avoids the necessity of adding a mark of any kind whatever to sucb a bass-note.

Secondly, if a chord of the sixth, for example, is to be continued over three or more bass-notes, the significance of the line is liable to be ambiguous, for, unless it commences as close as possible to the figure, it might indicate that the succeeding bass-note was to be a common chord, a mistake which could easily arise in M. S. music; whereas, according to the older plan, it would be immaterial where the line commenced, so long as it appeared under the second bass-note.

Thirdly, in the case of vocal music, a Song or a Recitative, for example, when many words are often sung to one chord, by the new plan, lincs of inordinate length would frequently be required; whereas, by the older plan, an occasional short dash would alone be necessary.

Fourthly, in examining the scores of the great classical masters from which examples for the guidance of the student are so often quoted, it scems little short of presumption on the part of the modern teacher to stale that the figuring is incorrect in this connection.

Finally, since the new plan is by no means an improvement on the old, there seems to be no specific reason why it should be adopted; for, surely no purpose is served by a change from which no advantage accrues.

Figures very frequently possess an ambiguous significance, an unfortunate but at the same time unavoidable fact, in which case it is necessary to consider the context, that is to say, the preceding or succeeding chord, or perhaps both chords. The figure 7 , for example, not only indicates a letrad (chord of the seventh), but indicates also the suspension 7 to 6 ; now, if the resolution of the suspension should be deferred, it requires the astuteness of a proficient musician to determine whether the figure 7 , in such a case, is intended to indicate a tetrad, especially if it should happen to be a secondary seventh, or the first inversion of a triad with the root suspended. In many cases the s.me fi:ures are employed for three different chords, while, as will be duly shown, certain figures are in use for four, five, six and even seven different chords. If symbols were employed all doubt as to the significance of a chord would be at once dispelled; symbols have, therefore, one disinct advantage over figures, in as much as that they express the exact character of a chord.

The following table comprises the figures usually employed in four-part harmony, together with their signification.

FIGURES.


Figures in brackets indicate notes that are sometimes indhded.

| 范范 | Silinificanct，mte． | $\begin{gathered} \text { 券 } \\ 0 \end{gathered}$ | Page． |
| :---: | :---: | :---: | :---: |
| 43 <br> 3 <br> 4 | Triad with 3rd doubly suspended． | Soris | 267 |
| 45 23 | Triad wilh both 5th and 3rd sub－sinspended． | \＄ | 267 |
| $\begin{aligned} & 46 \\ & 2- \end{aligned}$ | First inversion of triad with bass suspended and root sub－suspended． | $\stackrel{2}{\text { doubled }}$ | 268 |
| $\begin{aligned} & \mathbf{4} \\ & \mathbf{3} \end{aligned}$ | （a）Second inversion of tetral．$\left\{\begin{array}{l}\mathrm{V}^{2} \\ 117^{2} \\ 1.7^{3} \\ 1.7^{3}\end{array}\right.$ | 6 | 148 192 223 226 |
|  | （b）French 6th． | 6 | 331 |
| 3 4 | Third inversion of tetrad with root suspended． | 6 | 224 |
| 43 | Triad with bass and 3rd suspended． | 7 （not（i） | 206 |
| 5 － | First inversion of triad with bass suspended． | 5 or 2 doubled | 253 |
| $5-$ | Triad with 3rd sub－suspended． | 8 | 256 |
| $\begin{aligned} & 56 \\ & 23 \end{aligned}$ | First inversion of triad with root and 5 th（of root，botli sub－susprended | 8 |  |
| 3 3 | Triad；employed when another chord occurs on the same bass | 8 | 49 |
| 56 | First inversion of triad with root smb－suspended． | （8） | 254 |
| 5 5 | Triad with 3rd suspended． | 8 | 252 |
| $\begin{aligned} & 56 \\ & 4- \end{aligned}$ | Second inversion of triad with 3 rd（of root）sub－ suspended． | 8 | 256 |
| 5 5 | Triad．（Figuring rare．） | 2 and 3 |  |
| $\begin{aligned} & 66 \\ & 2- \end{aligned}$ | First inversion of triad with bass and root sus－ pended． | $\begin{gathered} 2 \\ \text { doubled } \end{gathered}$ | 266 |
| $\begin{aligned} & 6- \\ & 23 \end{aligned}$ | First inversion of triad with 5 th of root sub－ suspernded． | $\begin{gathered} 6 \\ \text { doubled } \end{gathered}$ |  |
| $\begin{aligned} & 65 \\ & 23 \end{aligned}$ | Triad with 5tt，suspended and 3rd sub－sus－ pended． | 8 |  |
| 6 | （a）First inversion of triad． | （8） | 102 |
| 3 | （b）When occurring on 11，followed b：I or I 1 ，it is regarded as the incomplete form of $\mathrm{V}_{7}{ }^{2}$ ． | 8 | 150 |

FIGURES.

|  | Significance, etc. | En | Page. |
| :---: | :---: | :---: | :---: |
| 6 | (c) Dominant 6th. | \% |  |
| 3 | (d) Italian 6th. | $\begin{gathered} 3 \\ \text { doubled } \end{gathered}$ | 32! |
| 65 | Triad with 5th suspended. | 8 | 235 |
| $\begin{aligned} & 6- \\ & 34 \end{aligned}$ | Second inversion of triad with root sub-suspended. | 8 | 255 |
| 6 | Second inversion of triad. | \$ | 114 |
| 6 - | Triad with bass suh-suspended. | (9) | 255 |
| $\begin{aligned} & 6- \\ & 43 \end{aligned}$ | First inversion of triad with 5 th of root mispended. | $\underset{\text { doubled }}{\mathbf{6}}$ | 255 |
| 65 | Triad with 5 th and 3rd suspended. | * | 267 |
| 43 | $\left\{\begin{array}{l} \mathrm{V}^{1}{ }^{1} \\ 11_{7}^{1} \end{array}\right.$ |  | 148 192 203 |
| 6 5 | (a) First inversion of tetrad. $\left\{\begin{array}{l}\mathrm{L} \mathrm{L}^{1} \\ \mathrm{~L} \mathrm{HO}^{1} \\ \mathrm{~L}, \mathrm{O}^{1}\end{array}\right.$ | 3 | $\stackrel{223}{226}$ |
|  | (b) 'Added 6th.' | 3 | 193 |
|  | (c) German 6th. | 3 | 331 |
| $\mathfrak{G}-$ | Second inversion of triad with root suspended. | $8($ not 3 ) | 250 |
| 6 - | First inversion of triad with root sub-suspended. | 3 | 255 |
| $\begin{gathered} 6 \\ 6 \end{gathered}$ | First inversion of triad; employed in the sinspension ${ }_{5}^{7}{ }^{6}$. | 3 | 266 |
| , | Tetrad with 3rd sub-suspended. | 5 | 269 |
| 7- | Triad with bass suspended. | $t$ | 252 |
| $\begin{aligned} & 76 \\ & 23 \end{aligned}$ | First inversion of triad with root suspencled, and 5 th of root sub-suspended. | 8 |  |
| 78 83 | Triad with both 8ve and 3rd sub-suspended. | 5 | 267 |
|  |  |  | 134 |
| 7 | Tetrad. 117 | 5 | 189 |
| 3 | $\left\{\begin{array}{l} \mathrm{L}_{7} \\ \mathrm{~L} 7 \mathrm{o} \end{array}\right.$ |  | 222 226 |
| $3{ }^{7}$ | Modified chord. | 5 | 301 |

## APPENDIX.

|  | Significance, retc. |  | Page. |
| :---: | :---: | :---: | :---: |
| 76 | First inversion of triad with root suspended. | 3 (not 5) | 248 |
| 78 | Triad with 8ve sub-suspended. | 5 | 254 |
| 7- | First inversion of triad with bass sub-suspended. | 7 or 4 doubled | 256 |
| 7 - | Tetrad with 3rd suspended. | 5 | 268 |
| 76 | Second inversion of triad with 3rd of root suspended. | 8 | 253 |
| $\begin{aligned} & 78 \\ & 43 \end{aligned}$ | Triad with 3rd suspended, and 8 ve sub-suspended. | 5 | 266 |
| 7 | (a) Incomplete form of tetrad. | 8 | 251 |
| 5 | (b) With 5th chromatically raised, the augmented triad and 7th on V. | 3 | 330 |
| ${ }_{5}^{7} 6$ | First inversion of triad with root doubly suspended. | 3 | 266 |
| 76 | First inversion of tetrad with root suspended. | 3 | $\because 24$ |
| $\begin{array}{r} 76 \\ 54 \end{array}$ | Second inversion of triad with root and 3rd of root suspended. | 8 | 266 |
| $\begin{aligned} & 78 \\ & 3- \end{aligned}$ | Triad with 8ve sub-suspended. (Figuring rare.) | 3 |  |
| 7 | Dominant 6th and 7th. | 3 | 330 |
| $\begin{aligned} & 7- \\ & 65 \end{aligned}$ | Tetrad with 5th suspended. | 3 | 268 |
| 76 | First inversion of triad with root suspended. | 3 | 250 |
| 78 | First inversion of triad with 8 ve of bass subsuspended. | 3 | 256 |
| $\begin{aligned} & 78 \\ & 65 \end{aligned}$ | Triad with 5 th suspended, and $8 v e$ sub-suspended. | 3 |  |
| $\begin{aligned} & 78 \\ & 76 \end{aligned}$ | First inversion of triad with oot suspended, and $8 v e$ of bass sub-suspended. | 3 |  |
| 8 - | Triad with 3rd sub-suspended. | 5 | 256 |
| 8 <br> 8 <br> 8 <br> 3 | Triad; employed in the susyensions $\left\{\begin{array}{ccccc}98 & 78 & 78 & 98 \\ 43 & 43 & 2 & 2\end{array}\right.$ and $\left.\begin{array}{l}98 \\ 2.3\end{array}\right\}$ | 5 | 266 267 |

FIGURES.

|  | Siginificance, etc. |  | Page. |
| :---: | :---: | :---: | :---: |
| 8 83 | Triad with 3rd susprended. | . | 252 |
| $86$ | First inversion of triad with root suspended, and bass sub-suspended. | doutiond |  |
| 8 5 | Triad. (Figuring rare.) | 3 |  |
| ${ }_{5}^{8} 6$ | First inversion of triad with root sub-suspended. | 3 | 254 |
| 8 | (a) First inversion of triad. | 3 | 102 |
| 6 | (b) When occurring on II, followed by I or [ ${ }^{1}$, it is regarded as the incomplete form of $\mathrm{V}_{7}{ }^{2}$. <br> (c) Dominant 6th. | 3 3 | 150 330 |
| 85 | Triad with 5th suspended. | 3 | 255 |
| 8 7 | Tetrad. $\left\{\begin{array}{l}\text { V77 } \\ \mathrm{II} 7\end{array}\right.$ | (5) and 3 <br> (5) and 3 | $\begin{aligned} & 134 \\ & 189 \end{aligned}$ |
| $\begin{aligned} & 8 \\ & 76 \end{aligned}$ | First inver sion of triad with root suspended. | 3 | 249 |
| $\begin{gathered} 8- \\ 78 \end{gathered}$ | Triad with 8 ve sub-suspended. | (5) and 3 | 254 |
| 8 | Triad; employed in the suspension $\frac{98}{78}$ | (5) and 3 | 266 |
| $\begin{aligned} & 98 \\ & 24 \end{aligned}$ | Triad with 8ve suspended, and 3rd sub-suspended. | 5 |  |
| $\begin{aligned} & 98 \\ & 3- \end{aligned}$ | Triad with 8ve suspended. | 5 | 249 |
| 9 - | Triad with bass sub-suspended. | 6 |  |
| $\begin{aligned} & 98 \\ & 43 \end{aligned}$ | Triad with 8ve and 3rd suspended. | 5 | 266 |
| ${ }_{5}^{98}$ | Triad with 8ve sispended. | 3 |  |
| $9$ | Triad with 3rd suspended and bass sub-suspended. | 6 |  |
| $98$ | First inversion of triad with 8ve of bass suspended, and root sub-suspended. | 3 |  |
| $\begin{aligned} & 98 \\ & 6- \end{aligned}$ | First inversion of triad with 8 ve of bass silspended. | 3 | 253 |
| 98 65 | Triad with 8ve and 5th suspended. | 3 |  |

APPENDIX.


When three figures are employed, they indicate the several notes that are to be placed in the upper parts. No nute represented in the figures should be omitted from the chord. To this rule there are very few exceptions ; the fifth, however, may sometimes be omitted even though it is included in the figures, as for example in the case of a modulation, when the fifth in $V_{7}$ is chromatically changed, see pagc 314.

| - | Significance, mtc. | Page. |
| :---: | :---: | :---: |
| 4 3 2 | Third inversion of pentad. | 209 |
| 5. $2-$ $2-$ | First inversion of triad with bass suspended. | 253 |
| 5- <br> $3 .-$ <br> $2-$ | Second inversion of tetrad with bass suspended. | 269 |
| 54 $3-$ $2-$ | Third inversion of pe. tad with 3rd of root suspended. |  |
| $\mathbf{5}$ $\mathbf{3}$ $\mathbf{3}$ | Triad with 3rd doubled, usually VI. | 68 |
| $5-$ $4-$ $2-$ | First inversion of tetrad with bass suspended. | 269 |


| 它哑 | Signticance, etc. | Page. |
| :---: | :---: | :---: |
| 53 | A triad with 3rd doubly suspended. | 267 |
| 23 |  |  |
| 5 4 43 | First inversion of tetrad with bass and oth of root suspended. | 269 |
| 33 56 |  | 269 |
| $4-$ | Second inversioll of tetrad with 3rd of root sub-suspended. | 200 |
| 5 - | First insersion of triad with bass suspencied. | 253 |
| $2-$ |  |  |
| 5 | Triad with 5th doubled, usually I after V91. | 209 |
| 3 |  |  |
| $5-$ |  | 252 |
| 53 | A triad with 3rd suspended. | 22 |
| 60 2 2 | First inversion of triad with basis and root suspended. | 266 |
| $2-$ |  |  |
| 66 | Second inversion of tetrad with bass and 3rd of root | 269 |
| $3-$ | suspended. |  |
| 6 - |  |  |
| 34 | Third inversion of tetrad with 3rd of root sub-suspended. | 270 |
| 2 - |  |  |
| 6 3 | First inversion of triad. | 102 |
| 3 |  | 148 |
| 6 | Third inversion of tetrad. $\mathrm{II}^{\text {a }}$, | 192 |
| 4 | Third inversion of tetrad. $\left\{\begin{array}{l}17_{7}^{3} \\ 7_{703}^{3}\end{array}\right.$ | 223 |
| 6. | $\mathrm{LI}_{1.70^{3}}$ | 226 |
| 4- | Tetrad with bass suspended. $\left\{\begin{array}{l}\text { 127 } \\ 1\end{array}\right.$ | 270 |
| 2 - |  |  |
| 65 43 | Triad with 5th suspended and 3rd doubly suspended. | 267 |
| 23 |  |  |
| 68 | A triad with bass suspended and 8ve sub-suspended. | 266 |
| ¢ - |  |  |



APPENDIX.

|  | Significance, etc. | Page. |
| :---: | :---: | :---: |
| 76 |  |  |
| 5 -- | First inversion of tetrad with root suxpended. | $2: 34$ |
| 76 56 $3-$ | First inversion of triad with root doubly suspended. | 266 |
| 76 54 $3-$ | Second inversion of tetrad with root and 3rd suspended. | 270 |
| 76 54 32 | Third inversion of tetrad with root, \%rd and 5th suspended |  |
| 78 5 $3-$ $3-$ | Triad with 8ve sub-suspended. | 254 |
| $7-$ 57 43 | Tetrad with 3rd suspended. | 270 |
| 76 56 $4-$ | Second inversion of triad with 3rd of root doubly suspended. |  |
| 76 50 43 | First inversion of tetrad with root and 5th of root suspended. |  |
| 76 56 43 | First inversion of triad with root doubly suspended, and 3rd of root suspended. |  |
| 7 6 2 | Fourth inversion of pentad. | 209 |
| $\begin{aligned} & 7- \\ & 60 \\ & 23 \end{aligned}$ | Dominant 6th and 7th with 3rd sub-suspended. |  |
| 7 6 3 | Dominant 6th and 7th. | 330 |
| 75 65 $3-$ | Tetrad with $\mathbf{8}$ th suspended. | 268 |
| 76 $6-$ $3-$ | First inversion of triad with root suspended. | 250 |

## FIGURES.

| 送 | Siminifleancre, hite, |  |
| :---: | :---: | :---: |
| $\begin{aligned} & 78 \\ & \mathbf{6} . \\ & 3 \end{aligned}$ | First inversion of triad with Sve of hans sub-buspernded. | 2inj |
| 78 65 3 | Triad with inll suxpended, athd tia suls-susprendid |  |
| i |  | 24i9 |
| $\begin{aligned} & 7 \\ & 6 \\ & 43 \end{aligned}$ | Dommant fith rud Ith with ird suspended. |  |
| $\begin{aligned} & \overline{1} \\ & i n \\ & 4 i \end{aligned}$ | listrad with ith radl 3 rd susperded. |  |
| 78 6 4 $4-$ | Second inversion of triad with sue of biens sub-mispurnded. | ?37 |
| 78 60 43 | Triad with 5 th, and 3rd suspended, and root sub-surjended. | 267 |
| 7 6 5 | lirst inversion of prentad. | 269 |
| 78 84 | Secoud inversion of triad with root sinspended, and Sve of b;iss sub-susprended. |  |
| 78 6 6 | Finst inversion of trited with ront stasjemeded, and 8ve of bass sub-silspended (rive). |  |
| 6 +3 | Hirst inversion of triad with ron and ith of root suspended, and sve: of betws sulb-susjecoled (very rare). |  |

When the uppermost of the thres figures is an 8 , the signification is the same as that of the lower two figures, the 8 simply indicating that the bisss-note is to be doubled.

## APPENDIX.

|  | Significance, etc. | Page. |
| :---: | :---: | :---: |
| 98 43 63 | Triad with 8ve suspended, and 3rd doubly suspended. | 249 |
| $\begin{aligned} & 98 \\ & 45 \\ & 23 \end{aligned}$ | Triad with 8ve suspended, and 5th and 3rd sub-suspended |  |
| 88 $3-$ $3-$ | Triad with 8ve suspended, and 3rd doubled. |  |
| 98 45 $3-$ | Triad with 8ve suspended, and 5th sub-suspended. |  |
| 98 5 28 | Triad with 8ve suspended, and 3rd sub-suspended. | 248 |
| 98 $5-$ $3-$ | Triad with 8ve suspended. | 266 |
| $\begin{aligned} & 98 \\ & 5- \\ & 43 \end{aligned}$ | Triad with 8ve and 3rd suspended. |  |
| 98 685 23 | Triad with 8ve and ${ }^{\text {Jih }}$ suspended, and 3rd suh-suspended. |  |
| 98 68 23 | First inversion of triad with 8ve of bass suspended, and 5 th of root sub-suspended. |  |
| 98 65 $3-$ | Trial with Rve and 5th suspended. | 265 |
| 98 $6-$ $3-$ | First inversion of triad with 8ve of hass suspended. | $\stackrel{33}{ }$ |
| $9-$ $4-$ $4-$ | Triad with hass sub-suspended. | 255 |
| 98 $6-$ $4-$ | Second inversion of triad with 8 ve of bass suspended. | 255 |
| 98 65 43 | First inversion of triad with 8ve of bass and $\overline{5}$ th of root suspended. | 255 |


| 为最 | Signtficance, etc. | Page. |
| :---: | :---: | :---: |
| 98 65 43 | Triad with 8ve, 5 th and 3rd suspended. | 96 |
| $\begin{aligned} & 98 \\ & 6 \\ & 54 \end{aligned}$ | Second inversion of triad with. Sve of bass and root silspended. | 23 |
| $\begin{aligned} & 98 \\ & 6 \\ & 56 \end{aligned}$ | First inversion of triad with 8ve of basis suspended, alld root sub-suspended, the root also present. |  |
| $\begin{aligned} & 9- \\ & 7- \\ & 23 \end{aligned}$ | Pentad with 3rd sub-snspended. |  |
| $\begin{aligned} & 98 \\ & 7 \\ & 23 \end{aligned}$ | Tetrad with 8ve smspended, and 3rd sub-smspended. |  |
| $\begin{aligned} & 98 \\ & 76 \\ & 23 \end{aligned}$ | First inversion of triad with root and sie of hisss sulispended, and sth of root sub-suspended. |  |
| 98 78 23 | Triad with the root doubly suspended, and 3rd subsuspended. |  |
| 9 7 3 | Pentad. | 203 |
| 98 7 3 | Tetrad with 8ve suspended. | 268 |
| 98 78 $3-$ $3-8$ | Triad with 8ve doubly sinspended. | 266 |
| 98 76 30 | First inversion of triad with both root and bve of hass suspended. |  |
| 9 $7 \%$ 43 | Pentad with 3rd snspended. | $2 \% 11$ |
| 98 7 4 4 | Tetrad with sve and 3rd suspended. | 236 |
| 98 76 4 | Second inversion of triad with 8 ve of bass and 3 rd of root suspended. |  |

xviii

## APRENDIX.

|  | Significance, gic. | Page. |
| :---: | :---: | :---: |
| $\begin{aligned} & 118 \\ & 71 \\ & 4: 1 \end{aligned}$ | Finst inversion of triad with sve of bass, root and 5 th of root suspended. | 268 |
| $\begin{aligned} & 95 \\ & 78 \\ & 48 \end{aligned}$ | Triad with 8re doubly gnspended, and 3rd suspended. | 23: |
| $\begin{aligned} & 0 \\ & 5 \\ & 5 \end{aligned}$ | Sometimes employed to indicate a pentad in which the Oth resolves by ascending ; the correct figuring in this case is 5 . | 209 |
| ! | Second inversion of triad with bass sub-sispended. | 937 |
| 18 <br> 18 <br> 14 | Sicond inversion of triad with root, 3rd of root and sve of bass suspended. | 268 |
| 98 <br> 68 <br> 18 | lirst inversion of triad with root doubly suspended, and 8ve of hass silsiended. | 268 |
| $\begin{aligned} & 98 \\ & 8 \\ & 28 \end{aligned}$ | Triad with 8ve sinspended, and 3rd sub-suspended. |  |
| $\begin{aligned} & 98 \\ & 8- \\ & 3- \end{aligned}$ | Triad with Sve suspended. | 240 |
| $\begin{aligned} & 98 \\ & 8 \\ & 43 \end{aligned}$ | Triad with 8ve and 3rd suspended. | 263 |

In four-p.th harmulny abose a pedal note, also in harmony for five, six, sevell and eight paris, fur figures are occasionally employed, the most important of which art the following.

Significance, etc.

Third inversioll of pentad.

|  | Significance, etc. |
| :---: | :---: |
| 7 <br> 5 <br> 4 <br> 2 | Tetrad (usually V7) on a (tonic) pedal. |
| $\begin{aligned} & 78 \\ & 5 . \\ & 43 \\ & 25 \end{aligned}$ | Triad with 3rd doubly suspended, and 8re sub-suspended. |
| 76 $3-$ 4 3 | Second inversion of pentad with 3rd of root nuspended. |
| 7 6 4 $\mathbf{4}$ $\mathbf{Q}$ | (a) Tetriad (usually L/7 or Lzo) on a (tonic) pedal. <br> (b) Foarth inversion of prentad. |
| $\begin{aligned} & 78 \\ & 65 \\ & 43 \\ & 23 \end{aligned}$ | Triad with 8ve sub-sisplemded, Jth susprended, and 3ral doubly suspended. |
| 7 6 0 3 | First inversion of pentad. |
| 9 3 3 3 | l'entad. |
| 95 7 $7-$ $3-$ | Tetrad with 8ve suspended. |
| $\begin{aligned} & 98 \\ & 76 \\ & 54 \\ & 34 \end{aligned}$ | Second inversion of triad with root doubly suspended, and 3rd and 8ve of bass suspended. |
| 98 76 56 3 | First inversion of triad with root donbly nusproded, and sue of bass suspended. |


|  | Significance, etc. |
| :---: | :---: |
| 98 |  |
| 78 | Triad with 8ve doubly suspended. |
| 3 - |  |
| 9 - |  |
| 7- | Pentad with 3rd suspended. |
| 43 |  |
| 08 |  |
| 7- | Tetrad with Sve and 3rd suspended. |
| 43 |  |
| 98 | ; |
| 78 | Triad with 8ve doubly suspended, and 3rd suspended. |
| 43 |  |
| 0 -- |  |
| 75 | Pentad with 5tlı and 3rd suspended. |
| 65 43 |  |
| 08 |  |
| $7 \overline{5}$ | Tetrad with 8ve, 5 th and 3rd suspended. |
| 65 43 |  |
| 08 |  |
| 78 | Triad with 8ve douhly silspended, and 5 th and 3rd suspended. |
| 43 |  |

More than four fignres are of very rare occurrerce; it is, however, possible to employ five and even six figures, the latter, of course, repres inting all the notes of the scale.
I) the Choral Symphony, at the commencement of the movement in which the chorns for the first time enters, Beethoven employs a chord in which all the notes of the scale of $D$ minor are heard simultaneously : this terrific discord is taken without any preparation, and consists of the first inversion of the tonic chord, to which the other notes of the harmonic form of the minor scale are added as auxiliary notes.

The figuring ir, this case would be $\begin{array}{r}\text { \#5 } \\ 43 \\ 43\end{array}$.
3 -.
23
(BY LOUISE B. CRISFIELD.)
Pagk
Acciaccatura ..... 302
Accidentally changed note ..... 337
Active note ..... 188, 187
Added sixth ..... 232
Aesthetic character of note ..... 187, 188
Anticipation ..... 304
Appoggiatura ..... 290, 302
4 Double ..... 303
Arpeggio ..... $290,325,326$
Augmented sixth, Its different forms ..... 329, 333
" " How employed ..... 328, 332
" Progressions to and from ..... 332
" Symbols for ..... 333
Augmented triad ..... 329, 133
Auxiliary notes ..... 244
" " Classified ..... 290
" " Employment of ..... 207, 305, 306
" " Use in sequences of ..... 336
Bass, Ground ..... 338
Cadences ..... 198, 212, 232, ..... 331
Changing notes ..... $290,295,300$
Chord of dominant second and seventh ..... 218,200
Chromatic chords, Classified ..... 329
" $"$ Definition of ..... 191, 196, 213
(Diminished seventh
(Minor seventh ..... 333-336
" passing notes ..... 299, 300
Crossing of parts ..... 273, 274, 298
Diminished fifth in consecution ..... 226, 227

- seventh, Chord of the ..... (212, 226
" " " " " Enharmonic treatment of 229,230
" " " " " Essential characteristics of ..... 228
" " " Progressions to ..... 433, 234
" " " " " Resolution ..... 226, 227, 231
" " " " " Symbols for ..... 232, 233
Discords by transition ..... 290, 291
" Chromatic ..... 196, 213, 329
" Diatonic, Auxiliary notes ..... 290
" " Fundamental ..... 139, 205, 222
" " Suspensions ..... 244, 205
xxii
INDE*。

200. 232
Displacement, Absolute ..... 207, 208
" Temporary ..... 20.5
Dominant ninfli ..... $\stackrel{2}{2} 2$
" " Derivatives of ..... 201
" Its constituent notes ..... 209، 210
" Its inversions ..... 212, 213
". Its use in cadences and seqquences. . ..... 270
" " " " suspensions ..... 214
" " " " unfigured basses and melodies
" " " " unfigured basses and melodies ..... $21: 2$" $"$ Progressions to210, 211
" " Resolutions, Additional ..... 211, 212
Resolutiona, .Addromatic ..... 203-208
Natural ..... 203
$" \quad$ " Symbols for ..... $2013 \cdot 2091$
. Treatment of ninth in ..... 209
" second 191, 194, 212, 232, 3:4, ..... 336
" sequence ..... 330
" sixth ..... 238. 229, 321, 324
Einharmonic: change ..... -2n
" equivalent ..... 228-231, 33:2
" modulation ..... 020
Essential discords ..... 32(
Extraneous modulation ..... 2919. 331
Filse relation, unobjectionable ..... 294, 298, 330
fortuitous chord ..... 300, 301
Free turning note ..... 331
French sixth ..... 332
" " Progressions to and from ..... 333
Fundamental discord $181,182,193,206,234,245,272,290,327$, ..... 33 !
222, 327, 335, 336
Generator ..... 331, 332
German sixth ..... 332, 333
" " Enharmonic treatment of ..... 332
.. ". Progressions to and from ..... $33 \%$
" " Symbols for ..... 338
Ground bass ..... 33x, 334
" Example of ..... 32\%, 32
Inverted pedal ..... 330
Harmonic furm of chromatic scale ..... 182
Homophonic ..... 335
Interdon nant defined ..... 331
Italian sixth ..... 332
" " Progressions to and from ..... 33.3
" " Symbols for ..... 321
Key relationship, First and second ..... 1820Keys, Foreign

Secondary sevenths ..... 189. 2225
" " Inversions ..... $192-104$
" Preparation and resolution of
" Preparation and resolution of ..... 188, 1M), 101 ..... 188, 1M), 101

- " Symbols for
- " Symbols for ..... 149 ..... 149 ..... 198 ..... 198 ..... 198
" $\quad$ Use in dominant sequence
" $\quad$ Use in dominant sequence
" $\quad$ Use in dominant sequence
270
270
" " " " unfigured basses and melodies ..... 108
Sequences, Chords of the ninth ..... 212
" 1.7 nnd L.7o ..... $2: 2$
" Modulating ..... 324
" Secnndary seventh ..... 191
Sub-suspension ..... 245
Sub-tonic ..... 277
Supertonic seventh ..... 189, 180
millor seventh ..... 191, 225
Suspensions, Combined ..... 265
Defined and exemplified ..... 244, 245
Double, exumplified ..... 266, 267
Falling, 43 nnd its inversions ..... 247, 25:2-254
65 ..... 247. 2\%5
" 08 ..... 247, 249-252
In connection with chords of the ninth andinversions$2 ; 0$
In connection with chords of the seventh and inversions ..... 268-270
". Rising, ! 3 and its inversions ..... 247, 254 ..... 24:, 256, 257
" 78 ..... 247, 254
Rules for ..... 248
" Sequential use of ..... 274, 275
245-245
" Single, figures and symbols for ..... 267, 268
" Virious resolutions of ..... 271, 272
Tetrad ..... 181, 189
Theory of the sharpest note ..... 230, 231
Tonal-vision ..... 188
Transcription ..... 227
Transition ..... 323
Turning notes ..... 290-292, ..... 298
$29+$
Unessential discord ..... 290
Unfigurel basses and inelodies ..... 278
Voices, Derivation of names of ..... 181


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[^0]:    "Just as a chord consisting of three different notes is called a 'triad', so a chord consisting of four different notes is called a 'tetrad'. This latter term, however, though convenient, is not in general use.

    Secondary sevenths are also, variously, known as, non-dominant sevenths' non-cadencing sevenths, diatonic discords, essential discords, etc. : while, they are sometines included under the very indefinite name of 'other chords of the seventh'.

[^1]:    * Some authorities contract the fiyuring to 9, but this leads to ambiguity, as will be seen in Chap. XVI, where it is shown that the figure $y$ indica!. . the 98 suspension, with deferred resolution, the seventh not being pres.nt.

    Just as a chord of the seventh is sometimes called a 'tetrad' so a chord of the ninth may ive called a 'pentad'.

[^2]:    * Rising suspensions have been called by some authors, 'Retardations, but to the use of this term in this connection there are some objections; it is not only unnecessary to employ an entirely different name for discords, which to all intents and purposes are practically the same as suspensions, but in the present instance it even lcads to confusion, for the term 'retardations' is now employed by many authorit es to dissignate certain discords of another character, which, sometimes called 'driving' or 'Jagging' notes, will be duly considered in chapter XVII.

[^3]:    - Onc modern authority, and one alone, it is believed, allows the uctave of the root to be heard above the suspension, provided it is approached conjunctly and by contrary motion; this, however, is is questionable license in any case, and the student is advised not to take idvantage oi is, especially at examinations.

[^4]:    

