

(Chapter XV) is similar in many respects to that for steel, which is outlined in other parts of the book, and the subject of Timber Framing has been covered by others. Only a brief review is made in Chapter XVI of a subject which has been completely discussed in recent treatises, but the costs, formulae and other data given are from the writer's personal records.

Ground floors are well illustrated, for they are important, and although the subject has been much studied, there is but little available literature. The construction of upper floors and especially fireproof ones, is given less space, as they differ little from those in other kinds of buildings. A hundred pages or more might easily be written on the subject, but this would appear unnecessary, as text books on fireproof building construction are abundant.

As modern manufacturing plants represent such large investments, several chapters are given to the preservation of their materials by paint and painting, and in the preparation of these chapters, in order that the directions given might be the best and latest, assistance has been received from The Sherwin Williams Paint Co., of Cleveland and the Lowe Bros. Paint Co., of Dayton.

Part V was prepared especially for students, estimators and draftsmen, and to others it may appear elementary. The costs given are from my own notes, and should be all the more valuable because data of this kind are generally difficult to secure. But approximate costs should be very carefully used, and should be revised to suit the time and place in question, or serious errors may result. To assist in revising them, a table is included giving the wages paid to mechanics in the building trades in all parts of North America, which should also be kept up to date.

Drawings and illustrations are freely used, as they generally convey ideas more easily than text.

Advertising of special goods or makes is not intended, and where manufacturers' names are given, it is only for the benefit of the reader and not in any way to favor one maker above another, excepting as impartial judgment directs.

As extracts have been very freely made by others from the author's writings in the engineering and technical journals of America and Europe (often without credit), foot notes are used, giving the date of the original articles, and other notes refer to extracts from "Mill Building Construction." Tables I, II, III and IV were supplied by the Shaw Electric Crane Co. A number of illustrations are from the pages of Engineering News, Engineering Record, Engineering Magazine, and other papers and journals, and