

CANADIAN HAND-BOOK OF STEAM AND ELECTRICITY.

TABLE OF CONTENTS—Continued.

INDEX OF ENGINEERS' MANUAL.

	Page		Page
Addition of Decimals	19	Rule to Find Circumference of a Circle	27
" Fractions	17	" " Co-Efficient of Efficiency	100
Area of a Square, Rule to Find	25	" " Collapsing Pressure of Plane Circular Furnace Tube	69
Boiler Feed Pumps, Rule to Find Required Size	86-88	" " Compression Required on Safety Valve	53
Boilers, Strength of	58	" " Contents of Pumps	86
Calculation of Work Done by Pumps	86-91	" " Diameter of a Circle	28
Calculating Horse Power from Indicator Diagrams	106	" " Safety Valve	47
Circle, Rule to Find Circumference of	27	" " to Blow Off at a Given Pressure	47
" " Diameter of	28	" " Downward Pressure on Spring Loaded Safety Valve	50
" " Area of	28	" " External Working Pressure on Circular Steel Furnaces and Flues	69
Circular Measurements	27	" " Effective Moment on Safety Valve Lever	45
Circular Steel Furnaces and Flues, Rule to Find External Working Pressure	69	" " Extra Pressure Required to Discharge Water from a Given Orifice	88
Circular Furnace Tube, Rule to Find Collapsing Pressure of a Plane	69	" " Graduate Lever of Safety Valve	45
Combustion Boxes, Rule to Find Working Pressure on Supporting Bolts and Plate of	82	" " Horse Power of an Engine	103-105
Common Fractions	9	" " Number of Coils for Safety Valve	56
" Principles Relating to	10	" " Outside Diameter of Safety Valve Spiral Spring	50
Common Denominator	10	" " Percentage of Strength of Plate at Joint Compared with Solid Plate	59, 60
Corrugated Steel Furnaces and Flues, Rule to Find Working Pressure	70	" " Pressure at Which Boiler will Blow Off	61
" Iron	70	" " Spring Loaded Safety Valve will Blow Off	47
Cottars, Rule to Find Size of Stays for	83	" " of Steam Within Engine Cylinder at Any Point During	54
Cube Root	36-39	" " Stroke	98, 99
Cubical Measurements	28	Rule to Find Required Area of Escape for Steam on a Spring Loaded Safety Valve	55
Decimal Fractions	17	Rule to Find Required Diameter of a Boiler	68
" Notation of	17	" " Stays	75
" Principles of	18	" " Length of Lever of Safety Valve	45
" Reduction of	24	" " Pitch of Stays	75
Decimals, Addition of	19	" " Size of Boiler Feed Pumps	86-88
" Division of	21	" " Thickness of Boiler Plate	68
" Multiplication of	20	" " Plate Forming Flat Surfaces	83
" Subtraction of	19	" " Weight of Safety Valve Ball	47
Denominator, Common	10	" " on Lever of Safety Valve	43
" Least Common	11	" " Safe Working Pressure of Boilers	58, 59
Determination of Mean Pressure	94-103	" " " on a Boiler	67
Diameter of a Boiler, Rule to Find Required	68	" " Strength of Riveted Joint	64
Division of Decimals	21	" " Strain Per Sectional Inch on Boiler Plate	68
" Fractions	14	" " Size of Stays for Cottars	83
Engine, Rule to Find Horse Power of	103-105	" " Total Weight Holding Spring Loaded Safety Valve in Place	54
Evolution	33	" " Stays on Stay	74
Flat Surfaces, Pressure on Plates Forming	82	" " Working Pressure on Corrugated Steel Furnaces and Flues	70
" Rule to Find Safe Working Pressure on Plate Forming	82	" " Iron	70
" Required Thickness of Plate Forming	83	" " of a Boiler with Stays of a Given Area	75
Fractions Addition of	12	" " on Rectangular Girders Supporting Tops of	81, 82
" Common	9	Combustion Boxes	82
" Principles Relating to	10	Rule to Find Working Pressure on Supporting Bolts and Plate of Combustion Boxes	82
" Decimal	17	Rule to Find Work Done by a Pump	59, 60
" Notation of Decimal	17	" " Velocity at which Water will Travel through the Discharge Pipe	84
" Principles of Decimal	18	Rules Relating to Measurements, Practical	32
" Reduction of Decimal	24	Safe Working Pressure of Boilers, Rule to Find	58, 59
" Division of	14	Safety Valve Calculations	44
" Multiplication of	13	" Lever Type	44
" Subtraction of	13	" Rule to Find Actual Effective Weight of Ball	46
Girders Supporting Tops of Combustion Boxes, Rule to Find Working Pressure on Rectangular	81, 82	Safety Valve, Rule to Find Area for Square Steel, Diameter for Round Steel, and Inside and Outside Diameter of Spring	51
Horse Power Calculations	103	" " Valve to Blow Off at a Given Pressure	47
" Calculating from Indicator Diagrams	106	" " Downward Pressure on Valve	50
" What it is	103	" " Effective Moment of Lever	45
" of an Engine, Rule to Find	103-105	" " Graduate Lever	45
Imperial Gallon, Contents of	29	" " Find Number of Coils	54
Indicator Diagrams, Calculating Horse Power from	106	" " Outside Diameter of a Spiral Spring	50
" Rule to Divide into Equal Parts	107	" " Pressure at which Boiler will Blow off	47
Least Common Denominator	11	" " Valve " " "	54
Material, Tensile Strength of	58	" " Required Area of Escape for Steam	55
Mathematical Signs	39-41	" " Length of Lever	46
Multiplication of Decimals	20	" " Weight of Ball	47
" Fractions	13	" " Total Weight Holding Valve in Place	54
Notation of Decimal Fractions	17	" " Spring Loaded	49-50
Planimeter, Uses of	106	" " Dimensions of Standard Spring	49
Plate, Rule to Find Required Thickness of Boiler	68	Signs, Mathematical	39, 40
" Strain Per Sectional Inch on Boiler	68	Signs that Represent Roots of Numbers	40, 41
Practical Measurements	25	Spring Loaded Safety Valves	49-53
Practical Rules Relating to Measurements	32	" Dimensions of Standard Spring	49
Pressure of a Boiler, Rule to Find Safe Working	67	Square Measure	35
Pressure Allowed on Plates Forming Flat Surfaces	82	Square Root	33
Pumps, Calculation of Work Done	86-91	Square Root of a Number, Rule to Find	33-35
" Rule to Find Capacity of	86	Standard Boiler	58
" Contents of	86	Standard Spring, Dimensions of Safety Valve Spring Loaded	49
" Required Size of Boiler Feed	86-88	Stays on Flat Surfaces, Strength of	74-78
" Work Done	89-90	Stays, Rule to Find Total Stress	74
Rivets, Rule to Determine Pitch of	63	Stays of a Given Area, Rule to Find Working Pressure of a Boiler with	75
Rule to Determine Number of Equal Parts that Engine Cylinder Requires to be Divided into	97	Stays, Rule to Find Required Diameter of	75
Rule to Determine Pitch of Rivets	63	" Pitch of	75
Rule to Divide Cylinder of an Engine into Equal Parts	97	" Area of Diagonal	80, 81
" Indicator Diagrams into Equal Parts	107	" Size of Stays for Cottars	83
Rule to Find Area of a Circle	28	Strength of Plate at Joint Compared with Solid Plate, Rule to Find Percentage of	59-60
" Diagonal Stays	80, 81	Strength of Rivets, Rule to Find Percentage of	61
" for Square Steel, Diameter for Round Steel, and Inside and Outside Diameter of Spring Safety Valve	51	Strength of Rivetted Joints, Rule to Find	62
Rule to Find Area of a Square	25	Strength of Stays on Flat Surfaces	74-78
" Actual Effective Weight of Safety Valve Ball	46	Strength of Boilers	58
" Area of an Irregular Figure	29	Subtraction of Decimals	19
" Capacity of a Square Tank	29	Subtraction of Fractions	12
" Pumps	86	Supporting Bolts and Plate of Combustion Boxes, Rule to Find Working Pressure on	82
		Tank, Rule to Find Capacity of	29
		Tensile Strength of Material	58
		Triangular Measurements	25
		U.S. Gallon, Contents of	29
		Velocity at which Water will Travel Through the Discharge Pipe of a Pump, Rule to Find	84
		Weight of a Cubic Foot of Water	29

Write to-day for a copy—

THE C. H. MORTIMER PUBLISHING CO., of Toronto, Limited,
TORONTO, CANADA.