CONTENTS.

	PAGE
Tables of Roof-weights and Wind-pressures	67 70
CHAPTER II.	
SHEARING FORCES AND BENDING MOMENTS.	
Equilibrium of Beams. Shearing Force. Bending Moment. Examples of Shearing Force and Bending Moment. Relation between Shearing Force and Bending Moment. Effect of Live (or Rolling) Load. Graphical Representation of Moment of Forces with Respect to a Point. Relation between Bending Moments and Funicular Polygon. Maximum Shear and Maximum Bending Moment at any Point of an Arbitarily Loaded Girder. Hinged Girders. Examples.	111 116 118 121 126
Examples.	131
CHAPTER III.	
GENERAL PRINCIPLES, ETC.	
Definitions Stress, Simple " Compound. Hooke's Law. Coefficient of Elasticity. Poisson's Ratio. Effect of Temperature. Specific Weight. Limit of Elasticity. Breaking Stress. Dead and Live Loads. Repeated Stress Effect. Wöhler's Experiments. Testing of Metals.	140 141 141 142 142 143 143 147 143 145 145
Launhardt's Formula. Weyrauch's Formula. Unwin's Formula. Flow of Solids. Work, Internal and External. Energy, Kinetic and Potential.	153 159 162 168
Oblique Resistance	169 174 176