



INDEX.

PART I.

	PAGE
GENERAL AND DESCRIPTIVE.....	1
American and Riveted Systems Compared.....	61
Architecture of Bridge-Building.....	82
Beam-Bridges.....	74
" " Plank Floor.....	75
" " Wood Pavement on Buckle Plates.....	75
" " Telford Pavement on Brick Arches.....	76
Bridge-Lettings, Conduct of.....	90
Bridges, Selections of.....	43
General Rules for Selection.....	43
Bowspring Truss.....	42
Bracing, Horizontal.....	67
" Sway.....	67
Braces and Counter-Braces.....	33
Bridges, Kinds of.....	32
How Classified.....	32
Cast-Iron, its Use.....	28
Chords, their Office.....	32
Construction, Methods of.....	44
Counter-Braces, their Action.....	33
Cross-Beams.....	63
Elasticity, Limit of.....	12
Eye-Bars.....	51
Their Manufacture.....	51
Factor of Safety.....	53
Fastening of Iron Stringers to Floor-Beams.....	11
Fink Suspension Truss.....	69
Floor-Beams.....	41
Riveting of.....	63
Their Connection.....	65
Flooring.....	66
Flooring System.....	69
Floor Planks, Method of Laying.....	62
Plates, Wrought-Iron.....	70
Framing, American System.....	73
Girders, Apparent Stiffness of.....	47
Compound Riveted.....	62
Solid Rolled.....	34
Good Bridge, Elements of.....	34
Gordon's Formula, Modification of.....	11
Guard Timbers.....	57
Iron-red and Cold-short.....	71
Iron-Work, Maintenance.....	27
King Post Truss.....	79
Lattice-Truss or Double Triangular.....	35
Large and Small Specimens, Testing of.....	40
Loads on Bridges.....	27
Local Loads.....	14
	16