

- Inclinations of lattice and lacing bars, 15.
 Indirect transference of stress by rivets, 92.
 Initial tension, 10; Table ix.
 Inspection, 211.
 Intensity of bearing-stress, 13, 76.
 of bending-stress, 13, 78.
 of compressive stress, 12.
 of tensile stress, 11, 12.
 Intermediate strut connection, 98, 144.
 Intermediate struts, 51, 56, 65; Table xxv.
 Iron, bills of, 71, 113, 114, 151, 152.
 cast, 24.
 hand railing, 23, 24.
 weight of, 33, 155, 156.
 Jaws, 22, 100, 104, 106, 143, 144, 149.
 Joint, sliding expansion, 103, 104.
 Joints, top chord, 94, 139, 179, 208.
 Joists, 23, 67, 209; Tables xv.-xviii.
 Knees, or knee braces, 22, 53, 103, 148.
 Labor in erecting, 117.
 in framing, 117, 198.
 Lacing-bars, 15, 102, 146, 181; Table xxxi.
 Lateral-rod connection, 10, 99, 106.
 Lateral rods, 14, 48, 61; Table xxv.
 strut connection, 98, 104, 144, 145.
 struts, 9-11, 49, 56, 61, 65, 135; Table xxv.
 systems, 48, 61.
 Lattice bars, 15, 102, 146; Table xxx.
 Lengths, limiting, 6, 7.
 of diagonals, 177, 221.
 of lattice and lacing bars, 102; Table xxix.
 of span, 6, 7.
 Letting bridges, 157.
 Limiting depths of pony trusses, 7, 123.
 depths of floor beams, 19.
 lengths of span, 6, 7.
 sizes of sections, 8, 57.
 slope of batter braces, 7.
 Limit of clear roadway, 6.
 List of data, 38, 118.
 of members, 28.
 Live loads, 5, 32, 37, 126.
 Loads, dead, 6, 32, 126, 156.
 Loads, live, 5, 32, 37, 126.
 snow, 35, 46.
 for wooden beams, 67; Tables xiii, xiv.
 Lock nuts, 22.
 Loop eyes, 20.
 Lower end of post re-enforcing, 95, 142.
 Lumber, amount per panel, Tables xv.-xviii.
 bill of, 115, 155.
 list of members, 28.
 Main diagonals, 59, 177, 221.
 members, 55, 60.
 Maintenance of bridges, 211.
 Marking iron, system of, 192.
 of dimensions, 180, 181.
 Material in struts, distribution of, 59, 64.
 Materials, bill of, 71, 113, 114, 115, 151, 152, 155.
 tests of, 25, 26.
 Measurements, method of recording, 180, 181.
 Members, list of, 28.
 Method of erecting a bridge, 196.
 of finding lengths of diagonals, 176, 221.
 of recording measurements, 180, 181.
 Methods of checking, 116, 181, 182, 198.
 Middle of post connection, 96.
 Minimum dimensions of chord and batter-brace plates, 14.
 Name plates, 24.
 Neglected consideration in highway-bridge designing, 215.
 Number of men required for erecting bridges, 117.
 Nuts, 22, 115.
 Oak lumber, weight of, 6.
 use of tables with, 61, 75.
 Order bill, final, 185.
 preliminary, 183.
 Ornamental work, 149.
 Outfit for draughtsman, 172.
 for erecting-gang, 197.
 Packing, chord, 62, 81, 132, 179, 206.