



Cyclopedia of Civil Engineering Volume 4 A General Reference Work on Surveying, Railroad Engineering, Structural Engineering, Roofs and Bridges, Masonry and Reinforced Concrete, Highway Construction, Hydraulic Engineering, Irrigation, River and Harbor

By American School



RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 142 pages. Dimensions: 9.7in. x 7.4in. x 0.3in. This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1909 Excerpt: . . . is 101, 952 pounds. One-half of this gives the maximum shear at the ends, or 50, 976 pounds. Applying Equation 31, we have, since $d = .85 d_{17}$ inches: $V = 50,796$ b(d--) 12X17 As already discussed in previous cases, the ends of the beam must be reinforced against diagonal tension, since the above value of v is too great, even as an ultimate value, for such stress. Therefore the ends of the beam must be reinforced by turning the bars up, or by the use of stirrups. The beam must therefore be reinforced about as shown in Fig. 102. Although the concentrated center load in this case is comparatively too small to require any change in the design, it should not be forgotten that a concentrated load may cause the shear to change so rapidly that it might require special provision for it by...

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