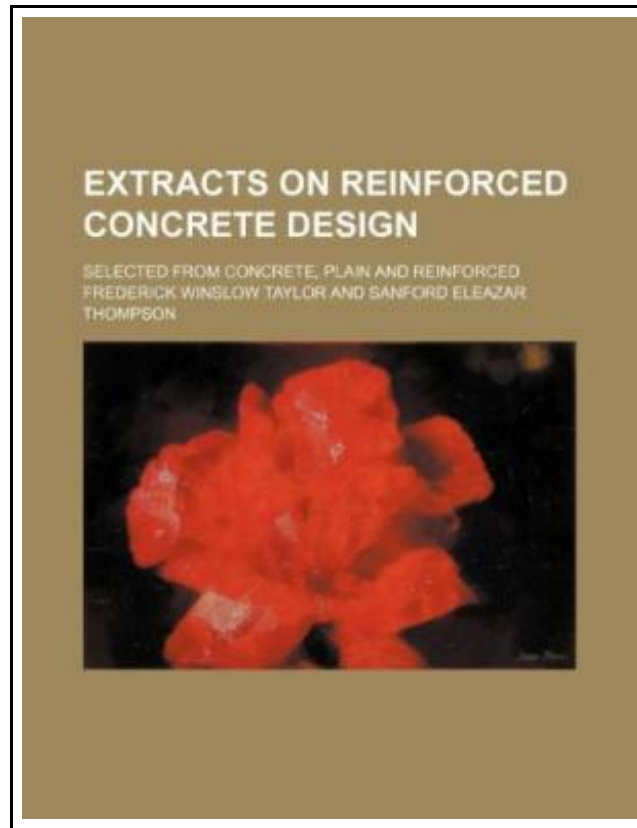


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1910 Excerpt: .The minimum distance is + 2.00--4.6 ft., the maximum is 2 + 2.00 = 6.0 ft., and the average distance  $4.6 + 6.00 \div 5 = 5.3$  feet, or  $r_0$ --2 feet,  $r$ , --5.3 feet. Live load--250 pounds per square foot. Assumed dead load =120 Total unit load,  $w$ , --370 Area of slab is 17 X 17--289 square feet and area of circular plate  $5.3 \times 3.14 = 88$  square feet; hence the difference of the two areas is 201 square feet, which is the area of slab outside of the assumed circular plate. The loading of this area is supported along the circumference of the flat plate, and equals  $201 \times 370 = 74\,370$  pounds. Dividing this value by the circumference of the outer circle of the plate, the circumferential unit loading,  $q = 2200$  pounds per foot, will be obtained. The ratio of radii =  $5 \div 3 = 2.65$ . To 2 3 Finding from the table on page 000 the corresponding constants, the maximum moments which occur at the support, that is at the circumference of the column head, are  $M_t = 370 \times 2J (0.2 + 1.75 + 0.30) = 3330$  inch pounds.  $M_b = 2200 \times 2 (2.01 + 1.13) = 13\,800$  inch pounds. Total moment,  $M = 17\,130$  inch pounds per inch of circumference of column head. This is a negative moment, the top of slab being in tension and the bottom in compression, as in any fixed or continuous member, at...



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