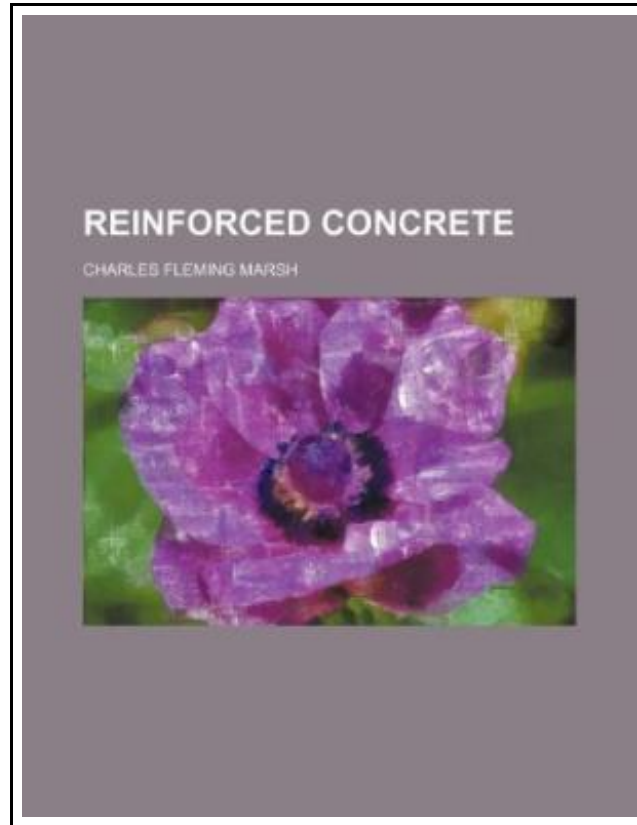


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REINFORCED CONCRETE



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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. 1904 Excerpt: .per square inch. Failed as a long column under a pressure of 5,400 lb. per square inch. Crushed under a load of 2,420 lb. per square inch. Fig. 288 is a diagram of deformation showing the behaviour of the six prisms. The figures against each line are the proportion of the volume of reinforcement to the total volume of the prism, being in the first figure for the longitudinals and in the second for the spirals. Group No. 6 approaches closely the manner of reinforcement usually adopted at the present time. General Properties of Ordinary Reinforced and Hooped Compression Members.--The following phenomena were observed during the above experiments, but no special instruments were used for measurements. Group No. 1 broke suddenly without warning, and the failure of Group No. 6 was almost as sudden, the breaking load for the latter only exceeding that producing the first cracks by 7 per cent., the reinforcing rods bending outwards between the belts and the concrete becoming crushed. (This agrees well with Professor Gary s experiments (p. 239) showing that concrete in compression when either un-reinforced or reinforced with longitudinal rods will break suddenly with a very slight deformation.) Groups 2, 3, 4 and 5 behaved at the commencement of the loading like the other prisms, showing only very small deformations under light loads, but this quasi elastic period was not terminated by the sudden failure of the specimen. The shortening was observed to increase rapidly, and cracks appeared in...



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