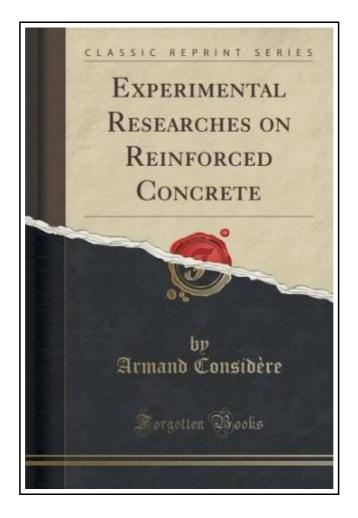
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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Experimental Researches on Reinforced Concrete Concrete as a material for structures, or parts of them, for the many and various needs of modern industrial life, had, as is well known, an extensive and growing application before iron or steel rods were embedded in it for reinforcing. The great advantages of concrete, viz., stability of characteristic properties, small effects caused by changes in temperature, protection against rust and heat, fireproof qualities, and, finally, the facility of adaptation to different forms and shapes, combined with a low cost of manufacture, made its still more extensive application desirable. But the resistance of concrete to the stresses and strains caused in it by external forces is low compared to that of the materials generally used by engineers, such as steel and wrought iron. Especially is the resistance of concrete to tensile and shearing stresses so small that structures or parts thereof which are subjected to such stresses to a considerable extent become uneconomical and impractical. When it, therefore, became known from the applications made by Monier, Wayss, and others that iron embedded in concrete would act together with the latter and thus virtually strengthen it, engineers all over the world were eager to take advantage of this method of reinforcing concrete. Many and multiform applications of this principle were made and numerous letters-patent taken, each claiming superiority over the other. It is due especially to the initiative and boldness of French and German engineers and their untiring energy in overcoming difficulties and objections, both engineering and legal, that reinforced concrete has had such a rapid and successful development. About the Publisher Forgotten Books publishes hundreds of thousands of rare...



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