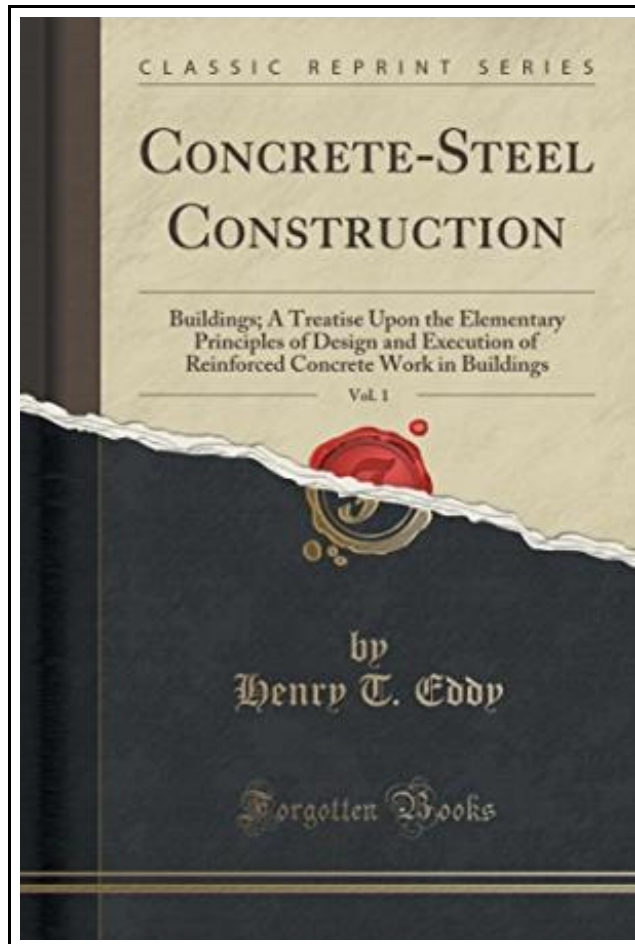


# Concrete-Steel Construction, Vol. 1: Buildings; A Treatise Upon the Elementary Principles of Design and Execution of Reinforced Concrete Work in Buildings (Classic Reprint) (Paperback)



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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 Concrete-Steel Construction, Vol. 1: Buildings; A Treatise Upon the Elementary Principles of Design and Execution of Reinforced Concrete Work in Buildings When we consider the fact that fire losses in Canada and the United States amount each year to half a billion dollars, and that the question of commercial economy and cost determines whether buildings shall be built of fireproof and incombustible materials such as reinforced concrete, or of inflammable materials such as are used in timber construction, it is evident how important it is to the general public to be able to determine on theoretically correct principles whether safe fireproof buildings can be built at practically no greater cost or even less cost than combustible ones. In case of any uncertainty as to theoretical principles to be applied, the designer is compelled for safety to employ materials in such lavish amounts as to render cost prohibitive. Engineering writers have heretofore failed to apply the mathematical theory of elasticity to those forms of reinforced concrete that differ from beams in their manner of reinforcement and that depend for their mechanical action on bond shear as it is involved in multiple way systems. The present treatise is devoted to discussion of the elementary principles and the practical problems presented by building work in reinforced concrete. In it an effort is made to dissipate differences of opinion due to lack of familiarity with the mechanics of reinforced concrete such as tend, at the present time, to retard its introduction and to hinder to some extent the rapidity of its progress in the commercial field. The endeavor is made in this treatise, to bring out these mechanical laws,...



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