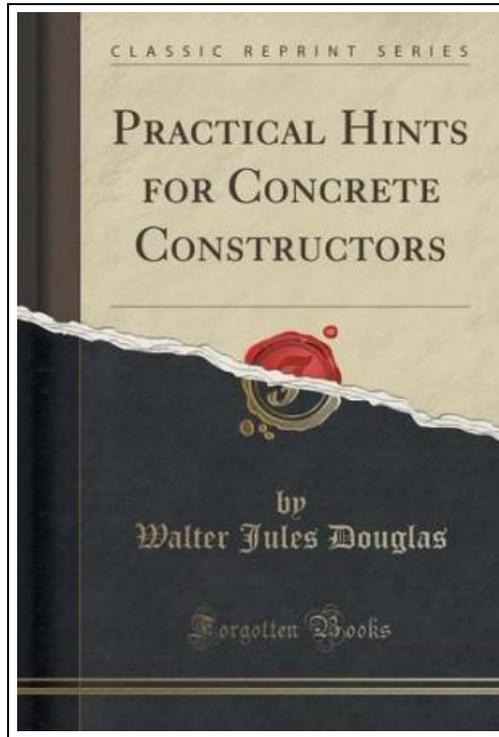


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Forgotten Books, 2018. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Practical Hints for Concrete Constructors The elastic theory as applied to concrete arches is very elegant and every concrete designer should be familiar with it. But in all cases except in that or very aat reinforced arches the common theory, intelligently applied, is all that is neces sary. In the design of the Piney Branch bridge;now under construction in Washington, both theories were applied and the maximum pressures diirered under the two analyses by only 5 lbs. Per sq. lh. Don t spend much time worrying about the exact position of the neutral axis or a beam. Anter you have inspected work under construc tion for a time you will be convinced that the way concrete goes into the work does not permit 01 any hair-splitting application of theory. Don t stress your concrete in compression higher than 300 lbs. Per sq. Ln. (mixture in beams, columns or arch-work. Unless you are going to have ? rst-class inspection; 400 lbs. Per sq. lh. Is high enough when the work is going to receive the best class of inspection. It is true that the French use very much higher stresses in their work, but they do a better class or work than we are at present doing in this country. Select a design which gives little tension or shear where possible. Remember that concrete is strong in compression and weak otherwise. The parabola catenary and circle are the best curves for a concrete arch. Arches designed on these lines require little steel reinforcement. Ellip tical arches and basket handles and other ?at arches must be heavily reinforced with steel and should not be used unless the waterway or grade demand it. Very ?at arches...



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