

# Concrete Bridges: Design And Construction

by A. C Liebenberg

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Bridge planning, design, and construction is an important function of civil engineering. The bridge design will be basically determined by the type of bridge, such as the beam bridge or the suspension bridge. Bridge foundations have to be carefully selected and constructed since they will bear the bridge and the vehicle loads. Bridge construction tends to involve huge projects that encompass the utilization of skills related to several engineering disciplines including geology, civil, electrical, mechanical, and computer sciences. Therefore, integrating the efforts of all involved must be meticulous. The initial plans are prepared regarding the project, including the characteristics of the desired bridge, the site details, and the requirement of resources. Concrete Bridge Design and Analysis Software. Improve decision making for design and construction while connecting and enhancing your workflow. Exchange project information including bridge geometry, materials, loads, prestressing strand pattern, and shear reinforcement. Innovative analysis, design, and load-rating functionality come together in one advanced environment with LEAP Bridge Concrete. Tap into the full power of specialized modules that share a common information model from a single interface for: Computational bridge layout and design. Analysis, design, and load rating for post-tension