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Inspection, Evaluation and Maintenance of Suspension Bridges Case Studies

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An Insiders' Guide to Inspecting, Maintaining, and Operating Bridges

Suspension bridges are graceful, aesthetic, and iconic structures. Due to their attractiveness and visibility, they are well-known symbols of major cities and countries in the world. They are also essential form of transportation infrastructure built across large bodies of water. Despite being expensive to build, they are economical structures for the lengths they span. They have evolved significantly from the basic concept dating back to 200 BC China through the first design for a bridge resembling a modern suspension bridge, attributed to Fausto Veranzio in 1595, to present day span lengths close to two kilometers.

Offers Insight from Bridge Owners across the Globe

Many of these bridges carry significant traffic, and their upkeep is very important to maintain transportation mobility. They offer grace and functionality, yet are extremely complex to construct and maintain. Bridge owners spend considerable amount of time and resources to ensure uninterrupted service, safety, and security for users. Inspection, evaluation, maintenance, and rehabilitation have evolved significantly. Modern materials and innovative design and construction practices have been integrated into these bridges to maintain durability and extended service life.

Inspection, Evaluation and Maintenance of Suspension Bridges Case Studies gives detailed case studies of the Manhattan, Akashi Kaikyo, Tsing Ma, Storebælt East, Forth Road, Bronx–Whitestone, George Washington, Angus L. Macdonald, Mid-Hudson, Shantou Bay, and Kingston–Port Ewen Bridges. It is written by the owners and practitioners who strive to cost-effectively manage them, and applies all the inspection, evaluation, and rehabilitation methods discussed in the companion volume to give a comprehensive picture of how suspension bridges are managed. It is invaluable to everyone interested not only in suspension bridges but also in the upkeep of any bridges – students, designers, maintenance personnel, contractors, and owners.

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