Sun / Chen / Zhu

Cable Vibration Mitigation Technology in Cable-Stayed Bridges

Cable Vibration Mitigation Technology in Cable-stayed Bridges provides an overview of research and engineering practices on stay cable vibration control. The book provides a systematic introduction to stay cable vibration issues, commonly used mitigation measures, vibration control system design theories, related technologies, and the latest trends. It includes detailed case studies of the initial vibration mitigation design for various bridges and subsequent upgrades to their vibration control systems. In addition, the book comprehensively overviews the stay cable vibration control design process, device selection, testing, vibration mitigation performance evaluation, and emerging challenges and solutions for ultra-long stay cables in long-span cable-stayed bridges.

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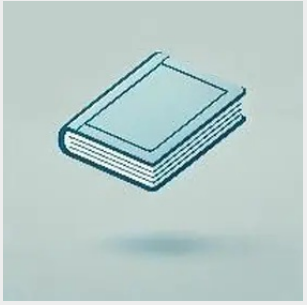

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