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Journal of Constructional Steel Research

Volume 58, Issue 1, January 2002, Pages 71-97

Vibration, control and monitoring of long-span bridges” recent research, developments and practice in Japan

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[https://doi.org/10.1016/S0143-974X\(01\)00049-9](https://doi.org/10.1016/S0143-974X(01)00049-9)

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Abstract

This paper discusses vibration, control and monitoring of long-span bridges, in particular, of cable-supported bridges with emphasis on recent research, developments and practice in Japan. Primary stress is placed on the vibration due to motion-dependent forces such as wind-induced aerodynamic forces and its control. Implementation of passive and active control in the long-span bridges in Japan is described. In the last part of the paper, importance and usefulness of vibration monitoring of long-span bridges is discussed with an actual example.



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Keywords

Active control; Ambient vibration; Bridges; Cables; Cable-supported bridges; Control; Human-induced vibration; Inverse analysis; Monitoring; Passive control; Wind-induced vibration

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