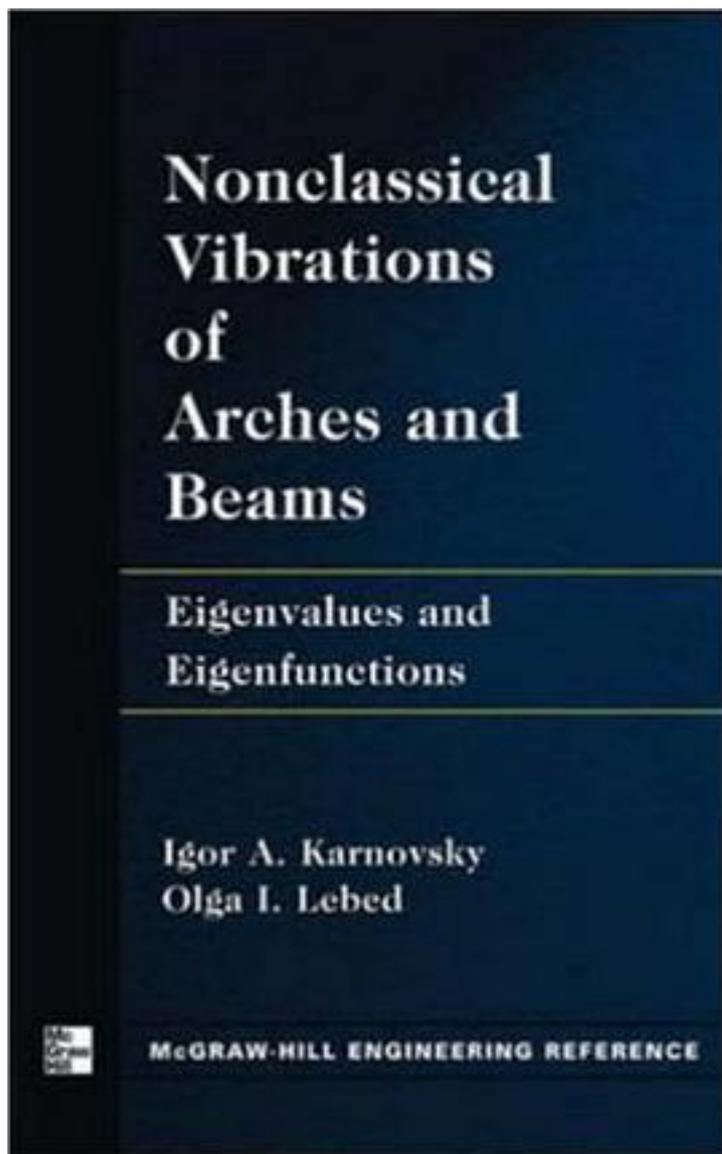


Nonclassical Vibrations of Arches and Beams



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This is a powerful aid for design and research. This monograph provides solutions to a large variety of vibration problems of arches and beams. The intent is to provide information that is not currently available and solutions for the eigenvalues and eigenfunctions problems that engineers and researchers use for the advanced analysis of dynamical behavior of arches and beams. Written by noted experts in vibration theory and optimal control of vibration, this unique resource provides eigenvalues and eigenfunctions for: Bernoulli-Euler beams on elastic foundation; beams under compressive and tensile axial loads; Bress-Timoshenko beams; non-uniform beams; optimal designed beams; non-linear vibrations; and, Arches Results are provided through numerous tables, charts, and worked solutions.

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