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Length; 2.7.2 Influence of Supporting Conditions of the Beam; 2.8 Vibration of an Axial-Loaded Euler Beam on the Elastic Foundation; 2.8.1 Equation of Motion; 2.8.2 Free Vibration of a Uniform Beam; 2.8.3 Numerical Example; 2.9 Flexural Vibration of a Continuous Timoshenko Beam; 2.9.1 Equation of Motion; 2.9.2 Free Vibration of a Uniform Timoshenko Beam; 2.9.3 Numerical Example
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3.2 Torsional Vibration of a Conical Shaft

Sommario/riassunto

"This book illustrates theories and associated mathematical expressions with numerical examples using various methods, leading to exact solutions, more accurate results, and more computationally efficient techniques. It presents the derivations of the equations of motion for all structure foundations using either the continuous model or the discrete model. It discusses applications for students taking courses including vibration mechanics, dynamics of structures, and finite element analyses of structures, the transfer matrix method, and Jacobi method"--
"A book to introduce the theories or methods presented in some of the author's publications appearing in the international journals"--