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Now in its third edition, Vibrations of Shells and Plates continues to lay an analytical and computational foundation for the study of vibration in these structures. Vibrations of Shells and Plates, Third Edition is updated with substantial new material reflecting advances made over the past decade since publication of the second edition. The author demonstrates how the vibration behavior of shells and plates differs from that of beams through theoretical development and examples.

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Vibrations drive many engineering designs in today ' s engineering environment. There has been an enormous amount of research into this area of research over the last decade. This book documents some of the latest research in the field of vibration of composite shells and plates filling a much-needed gap in the market.

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The vibration of plates is a special case of the more general problem of mechanical vibrations. The equations governing the motion of plates are simpler than those for general three-dimensional objects because one of the dimensions of a plate is much smaller than the

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other two. This suggests that a two-dimensional plate theory will give an excellent approximation to the actual three-dimensional motion of a plate-like object, and indeed that is found to be true. There are several theories that ha

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Expert researchers will find the most recent progresses in nonlinear vibrations and stability of shells and plates, including advanced problems of shells with fluid-structure interaction. Professionals will find many practical concepts, diagrams, and numerical results, useful for the design of shells and plates made of traditional and advanced materials.

Nonlinear Vibrations and Stability of Shells and Plates ...

The vibrations of laminated composite plate with a single rib is examined. The reference solution is taken from in order to verify the shell element model for a plate with composite stiffener. Numerical results are obtained for the clamped stiffened plate made of a carbon/epoxy composite material (AS1/3501-6).

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