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Summary. Chapter 15 deals with the problem of free vibrations of plates and shells. The following vibration phenomena are distinguished: (i) vibrations of a membrane in its middle plane, (ii) transverse vibrations of plates and (iii) complex vibrations of shells. In a general analysis of structural models the continuous distribution...

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Vibration of Laminated Shells and Plates | ScienceDirect

Description. 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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An introduction to the vibration of plates and shells is given in condensed form and the fundamental concepts of dynamic analysis for free and forced vibrations of unstiffened and stiffened plate and shell structures are discussed. The book empha-sizes the understanding of basic phenomena in shell and plate vibrations. We hope

Thin Plates and Shells - Semantic Scholar

The vibrations of circular cylindrical shells with non-uniform boundary constraints were studied by Amabili and Garziera [21] using the artificial spring method in which the modes for the corresponding less-restrained problem were used to expand the displacement solutions.

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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....

Nonlinear Vibrations and Stability of Shells and Plates by ...

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 other two.

Vibration of plates - Wikipedia

Vibrations of Shells and Plates, Third Edition Werner Soedel With increasingly sophisticated structures involved in modern engineering, knowledge of the complex vibration behavior of plates, shells, curved membranes, rings, and other complex structures is essential for today's engineering students, since the behavior is fundamentally different than that of simple structures such as rods and beams.

Vibrations of Shells and Plates, Third Edition | Werner ...

Introduction to the Theory of Plates Charles R. Steele and Chad D. Balch Division of Mechanics and Computation Department of Mecanical Engineering Stanford University Stretching and Bending of Plates - Fundamentals Introduction A plate is a structural element which is thin and flat. By "thin," it is meant that the plate's transverse

Introduction to the Theory of Plates - Stanford University

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M. Amabili, Nonlinear vibrations and stability of shells and plates, Cambridge University Press (2008). ISBN 978-0-521-88329-0 M. Amabili, Nonlinear mechanics of shells and plates in composite, soft and biological materials , Cambridge University Press (2018).

Marco Amabili - Wikipedia

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