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* This information-rich reference book provides solutions to the architectural problem of vibrations in beams, arches and frames in bridges, highways, buildings and tunnels * A must-have for structural designers and civil engineers, especially those involved in the seismic design of buildings * Well-organized into problem-specific chapters, and loaded with detailed charts, graphs, and necessary formulas

The objective of this text is to provide an up to date reference source of known solutions to a wide range of vibration problems found in beams, arches and frames. The solutions offered apply to bridges, highways, buildings, and tunnels.

Structural Dynamics: Concepts and Applications focuses on dynamic problems in mechanical, civil and aerospace engineering through the equations of motion. The text explains structural response from dynamic loads and the modeling and calculation of dynamic responses in structural systems. A range of applications is included, from various engineering disciplines. Coverage progresses consistently from basic to advanced, with emphasis placed on analytical methods and numerical solution techniques. Stress analysis is discussed, and MATLAB applications are integrated throughout. A solutions manual and figure slides for classroom projection are available for instructors.

Insights and Innovations in Structural Engineering, Mechanics and Computation comprises 360 papers that were presented at the Sixth International Conference on Structural Engineering, Mechanics and Computation (SEMC 2016, Cape Town, South Africa, 5-7 September 2016). The papers reflect the broad scope of the SEMC conferences, and cover a wide range of engineering structures (buildings, bridges, towers, roofs, foundations, offshore structures, tunnels, dams, vessels, vehicles and machinery) and engineering materials (steel, aluminium, concrete, masonry, timber, glass, polymers, composites, laminates, smart materials).

Theory of Arched Structures: Strength, Stability, Vibration presents detailed procedures for analytical analysis of the strength, stability, and vibration of arched structures of different types, using exact analytical methods of classical structural analysis. The material discussed is divided into four parts. Part I covers stress and strain with a particular emphasis on analysis; Part II discusses stability and gives an in-depth analysis of elastic stability of arches and the role that matrix methods play in the stability of the arches; Part III presents a comprehensive tutorial on dynamics and free vibration of arches, and forced vibration of arches; and Part IV offers a section on special topics which contains a unique discussion of plastic analysis of arches and the optimal design of arches..

The sixth edition of Structural Dynamics: Theory and Computation is the complete and comprehensive text in the field. It presents modern methods of analysis and techniques adaptable to computer programming clearly and easily. The book is ideal as a text for advanced undergraduates or graduate students taking a first course in structural dynamics. It is arranged in such a way that it can be used for a one- or two-semester course, or span the undergraduate and graduate levels. In addition, this text will serve the practicing engineer as a primary reference. The text differs from the standard approach of other presentations in which topics are ordered by their mathematical complexity. This text is organized by the type of structural modeling. The author simplifies the subject by presenting a single degree-of-freedom system in the first chapters, then moves to systems with many degrees-of-freedom in the following chapters. Finally, the text moves to applications of the first chapters and special topics in structural dynamics. This revised textbook intends to provide enhanced learning materials for students to learn structural dynamics, ranging from basics to advanced topics, including their application. When a line-by-line programming language is included with solved problems, students can learn course materials easily and visualize the solved problems using a program. Among several programming languages, MATLAB® has been adopted by many academic institutions across several disciplines. Many educators and students in the U.S. and many international institutions can readily access MATLAB®, which has an appropriate programming language to solve and simulate problems in the textbook. It effectively allows matrix manipulations and plotting of data. Therefore, multi-degree-of freedom problems can be solved in conjunction with the finite element method using MATLAB®. The revised version will include: · solved 34 examples in Chapters 1 through 22 along with MALAB codes. · basics of earthquake design with current design codes (ASCE 7-16 and IBC 2018). · additional figures obtained from MATLAB codes to illustrate time-variant structural behavior and dynamic characteristics (e.g., time versus displacement and spectral chart). This text is essential for civil engineering students. Professional civil engineers will find it an ideal reference.

Offers a review of the newest methodologies for the characterization and modelling of lightweight materials and structures Advances in Multifunctional Lightweight Structures offers a text that provides and in-depth analyses of the thermal, electrical and mechanical responses of multi-functional lightweight structures. The authors, noted experts on the topic, address the most recent and innovative methodologies for the characterization and modelling of lightweight materials and discuss various shell and plate theories. They present multifunctional materials and structures and offer detailed descriptions of the complex modelling of these structures. The text is divided into three sections that demonstrate a keen understanding and awareness for multi-functional lightweight structures by taking a unique approach. The authors explore multi-disciplinary modelling and characterization alongside

benchmark problems and applications, topics that are rarely approached in this field. This important book: • Offers an analyses of the thermal, electrical and mechanical responses of multi-functional lightweight structures • Covers innovative methodologies for the characterization and modelling of lightweight materials and structures • Presents a characterization of a wide variety of novel materials • Considers multifunctional novel structures with potential applications in different high-tech industries • Includes efficient and highly accurate methodologies Written for professionals, engineers and researchers in industrial and other specialized research institutions, Advances in Multifunctional Lightweight Structures offers a much needed text to the design practices of existing engineering building services and how these methods combine with recent developments.

Mechanics of Functionally Graded Material Structures is an authoritative and fresh look at various functionally graded materials, customizing them with various structures. The book is devoted to tailoring material properties to the needed structural performance. The authors pair materials with the appropriate structures based upon their purpose and use. Material grading of structures depending upon thickness, axial and polar directions are discussed. Three dimensional analysis of rectangular plates made of functional graded materials and vibrational tailoring of inhomogeneous beams and circular plates are both covered in great detail. The authors derive novel closed form solutions that can serve as benchmarks that numerical solutions can be compared to. These are published for the first time in the literature. This is a unique book that gives the first exposition of the effects of various grading mechanisms on the structural behavior as well as taking into account vibrations and buckling. Contents:Three-Dimensional Analysis of Rectangular Plates Made of Functionally Graded Materials:Elastic PlatesIntroduction to Functionally Graded MaterialsDynamic Analysis of Plates Made of Functionally Graded MaterialsStatic Analysis of Plates Made of Functionally Graded MaterialsVibration Tailoring of Inhomogenous Beams and Circular Plates:Beams Made of Functionally Graded MaterialVibration Tailoring of Inhomogeneous Elastically Restrained Vibrating BeamsSome Intriguing Results Pertaining to Functionally Graded ColumnsDesign of Heterogeneous Polar–Orthotropic Clamped Circular Plates with Specified Fundamental Natural FrequencyVibration Tailoring of Simply-Supported Polar Orthotropic Inhomogeneous Circular PlatesVibration Tailoring of Clamped–Clamped Polar Orthotropic Inhomogeneous Circular PlatesVibration Tailoring of a Polar Orthotropic Circular Plate with Translational SpringConclusionAppendices:A Novel Formulation Leading to Closed-Form Solutions for Buckling of Circular PlatesInverse Vibration Problem for Inhomogeneous Circular Plate with Translational SpringApparently First Closed-Form Solutions for Non-Symmetric Vibrations of Inhomogeneous Circular PlatesClosed-Form Solution for Axisymmetric Vibration of Inhomogeneous Simply-Supported Circular Plates Readership: Graduate students, academics, professional and researchers interested in the effects of various grading mechanisms on structural behavior as well as vibration and buckling.Key Features:This book deals with material grading of structures in (a) thickness, (b) axial and (c) polar directionsIt derives novel closed-form solutions that can serve as benchmarks with which numerical solutions can be compared withIt contains extensive bibliography in this fascinating topicKeywords:Materials;Structures;Vibrations;Three-Dimensional Analysis

A presentation of the theory behind the Rayleigh-Ritz (R-R)method, as well as a discussion of the choice of admissiblefunctions and the use of penalty methods, including recentdevelopments such as using negative inertia and bi-penaltyterms. While presenting the mathematical basis of the R-Rmethod, the authors also give simple explanations and analogies tomake it easier to understand. Examples include calculation ofnatural frequencies and critical loads of structures and structuralcomponents, such as beams, plates, shells and solids.

MATLAB codesfor some common problems are also supplied.

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