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The Journal of the Acoustical Society of America - Acoustical Society of America 2003

Government Reports Announcements & Index - 1976

Size-Dependent Continuum Mechanics Approaches - Esmaeal Ghavanloo 2021-04-02
This book offers a comprehensive and timely report of size-dependent continuum mechanics approaches. Written by scientists with worldwide reputation and established expertise, it covers the most recent findings, advanced theoretical developments and computational techniques, as well as a range of applications, in the field of nonlocal continuum mechanics. Chapters are concerned with lattice-based nonlocal models, Eringen's nonlocal models, gradient theories of elasticity, strain- and stress-driven nonlocal models, and peridynamic theory, among other topics. This book provides researchers and practitioners with extensive and specialized information on cutting-edge theories and methods, innovative solutions to current problems and a timely insight into the behavior of some advanced materials and structures. It also offers a useful reference guide to senior undergraduate and graduate students in mechanical engineering, materials science, and applied physics.
Proceedings of the National Science Council, Republic of China - 1998

A Collection of Technical Papers: Structural dynamics II - 1990

Applied Science & Technology Index - 2000

Japanese Technical Abstracts - 1987

Dynamics of Civil Structures, Volume 2 - Hae Young Noh 2022-08-24
Dynamics of Civil Structures, Volume 2: Proceedings of the 40th IMAC, A Conference and Exposition on Structural Dynamics, 2022, the second volume of nine from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of the Dynamics of Civil Structures, including papers on: Structural Vibration Humans & Structures Innovative Measurement for Structural Applications Smart Structures and Automation Modal Identification of Structural Systems Bridges and Novel Vibration Analysis Sensors and Control
Cumulated Index Medicus - 1995

University of Michigan Official Publication - University of Michigan 1988
Each number is the catalogue of a specific school or college of the University.
Journal of Engineering Mechanics - 2006

College of Engineering (University of Michigan) Publications - University of Michigan. College of Engineering 1988
Also contains brochures, directories, manuals, and programs from various College of Engineering student organizations such as the Society of Women Engineers and Tau Beta Pi.
EASEC16 - Chien Ming Wang 2020-12-22
This book presents articles from The 16th East Asian-Pacific Conference on Structural Engineering and Construction, 2019, held in Brisbane, Australia. It provides a forum for professional engineers, academics, researchers and contractors to present recent research and developments in structural engineering and construction.
Advances in Modeling, Assessment, and Prevention of Geotechnical and Geological Disasters - Xiaodong Fu 2022-10-19

Government Reports Announcements - 1974-02-22

INIS Atomindeks - 1984

Energy Research Abstracts - 1995

Topics in Modal Analysis & Testing, Volume 8 - Brandon J. Dilworth 2021-11-03
Topics in Modal Analysis & Testing, Volume 8: Proceedings of the 39th IMAC, A Conference and Exposition on Structural Dynamics, 2021, the eighth volume of nine from the Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Modal Analysis, including papers on: Operational Modal & Modal Analysis Applications Experimental Techniques Modal Analysis, Measurements & Parameter Estimation Modal Vectors & Modeling Basics of Modal Analysis Additive Manufacturing & Modal Testing of Printed Parts
Chinese Science Abstracts - 1984

College of Engineering - University of Michigan. College of Engineering 1988

A Directory of Computer Software Applications - 1978

Innovative Product Design and Intelligent Manufacturing Systems - BBVL. Deepak 2020-03-13
This book gathers selected research articles from the International Conference on Innovative Product Design and Intelligent Manufacturing System (ICIPDIMS 2019), held at the National Institute of Technology, Rourkela, India. The book discusses latest methods and advanced tools from different areas of design and manufacturing technology. The main topics covered include design methodologies, industry 4.0, smart manufacturing, and advances in robotics among others. The contents of this book are useful for academics as well as professionals working in industrial design, mechatronics, robotics, and automation.
International Journal of Offshore and Polar Engineering - 2001

An Introductory Guide to EC Competition Law and Practice - Valentine Korah 1994

Beams on Elastic Foundation - M. Hetenyi 1958

Building Science Abstracts - Building Research Station (Great Britain) 1969

Physics Briefs - 1990

Analytical Approaches for Reinforced Concrete - Yufei Wu 2022-04-16
Analytical Approaches for Reinforced Concrete presents mathematically-derived theories and equations for RC design and construction. The book applies deductive reasoning, logic and mathematics to RC. Laying out, deductively, the principles of RC, it encourages researchers to re-imagine and innovate using a solid conceptual framework. Sections consider the reasoning behind key theories, as well as problems that remain unsolved. The title presents key ideas in simple language and illustrates them clearly to help the reader grasp difficult concepts and develop a solid foundation, grounded in mathematics, for further study and research. The book is future-oriented, demonstrating theories that are applicable not only to conventional reinforced concrete members, but also to the envisaged structures of tomorrow. Such developments will increasingly require a deep, deductive understanding of RC. This title is the first of its kind, presenting a fresh analytical approach to reinforced concrete design and construction. Takes an analytical approach to reinforced concrete using mathematics and deduction Lays out the reasoning behind key theories and models in reinforced concrete design and construction Encourages researchers-new and established- to re-imagine and innovate using a solid conceptual framework Presents difficult concepts that are clearly and analytically presented with accompanying illustrations Looks forward to the use of reinforced concrete in the complex structures of the future
Proceedings of EECE 2019 - Borodinecs Anatolijs 2020-04-29
This book gathers the latest advances, innovations, and applications in the field of energy, environmental and construction engineering, as presented by international researchers and engineers at the International Scientific Conference Energy, Environmental and Construction Engineering, held in St. Petersburg, Russia on November 19-20, 2019. It covers highly diverse topics, including BIM; bridges, roads and tunnels; building materials; energy efficient and green buildings; structural mechanics; fluid mechanics; measuring technologies; environmental management; power consumption management; renewable energy; smart cities; and waste management. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.
Nonlinear Dynamics, Volume 1 - Gaetan Kerschen 2016-04-22
Nonlinear Dynamics, Volume 1. Proceedings of the 34th IMAC, A Conference and Exposition on Dynamics of Multiphysical Systems: From Active Materials to Vibroacoustics, 2016, the fi rst volume of ten from the Conference, brings together contributions to this important area of research and engineering. Th e collection presents early fi ndings and case studies on fundamental and applied aspects of Structural Dynamics, including papers on: • Nonlinear Oscillations • Nonlinear Modal Analysis • Nonlinear System Identifi cation • Nonlinear Modeling & Simulation • Nonlinearity in Practice • Nonlinearity in Multi-Physics Systems • Nonlinear Modes and Modal Interactions
Japan Manufacturing - 1988

Spectral Element Method in Structural Dynamics - Usik Lee 2009-07-31
Spectral Element Method in Structural Dynamics is a concise and timely introduction to the spectral element method (SEM) as a means of solving problems in structural dynamics, wave propagations, and other related fields. The book consists of three key sections. In the first part, background knowledge is set up for the readers by reviewing previous work in the area and by providing the fundamentals for the spectral analysis of signals. In the second part, the theory of spectral element method is provided, focusing on how to formulate spectral element models and how to conduct spectral element analysis to obtain the dynamic responses in both frequency- and time-domains. In the last part, the applications of SEM to various structural dynamics problems are introduced, including beams, plates, pipelines, axially moving structures, rotor systems, multi-layered structures, smart structures, composite laminated structures, periodic lattice structures, blood flow, structural boundaries, joints, structural damage, and impact forces identifications, as well as the SEM-FEM hybrid method. Presents all aspects of SEM in one volume, both theory and applications Helps students and professionals master associated theories, modeling processes, and analysis methods Demonstrates where and how to apply SEM in practice Introduces real-world examples across a variety of structures Shows how models can be used to evaluate the accuracy of other solution methods Cross-checks against solutions obtained by conventional FEM and other solution methods Comes with downloadable code examples for independent practice Spectral Element Method in Structural Dynamics can be used by graduate students of aeronautical, civil, naval architectures, mechanical, structural and biomechanical engineering. Researchers in universities, technical institutes, and industries will also find the book to be a helpful reference highlighting SEM applications to various engineering problems in areas of structural dynamics, wave propagations, and other related subjects. The book can also be used by students, professors, and researchers who want to learn more efficient and more accurate computational methods useful for their research topics from all areas of engineering, science and mathematics, including the areas of computational mechanics and numerical methods.
Dynamics of Structures - Ray W. Clough 1993
Intended primarily for teaching dynamics of structures to advanced undergraduates and graduate students in civil engineering departments, this text is the solutions manual to Dynamics of Structures, 2nd edition, which should proviide an effective reference for researchers and practising engineers. The main text aims to present state-of-the-art methods for assessing the seismic performance of structure/foundation systems and includes information on earthquake engineering, taken from case examples.
Science Abstracts - 1992

Who's who in Technology Today - 1981

Applied mechanics reviews - 1948

Canadian Journal of Civil Engineering - 2006

Government Reports Announcements & Index - 1976

Shear Deformable Beams and Plates - C.M. Wang 2000-07-19
Most books on the theory and analysis of beams and plates deal with the classical (Euler-Bernoulli/Kirchoff) theories but few include shear deformation theories in detail. The classical beam/plate theory is not adequate in providing accurate bending, buckling, and vibration results when the thickness-to-length ratio of the beam/plate is relatively large. This is because the effect of transverse shear strains, neglected in the classical theory, becomes significant in deep beams and thick plates. This book illustrates how shear deformation theories provide accurate solutions compared to the classical theory. Equations governing shear deformation theories are typically more complicated than those of the classical theory. Hence it is desirable to have exact relationships between solutions of the classical theory and shear deformation theories so that whenever classical theory solutions are available, the corresponding solutions of shear deformation theories can be readily obtained. Such relationships not only furnish benchmark solutions of shear deformation theories but also provide insight into the significance of shear deformation on the response. The relationships for beams and plates have been developed by many authors over the last several years. The goal of this monograph is to bring together these relationships for beams and plates in a single volume. The book is divided into two parts. Following the introduction, Part 1 consists of Chapters 2 to 5 dealing with beams, and Part 2 consists of Chapters 6 to 13 covering plates. Problems are included at the end of each chapter to use, extend, and develop new relationships.
Electrical & Electronics Abstracts - 1997