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Encyclopedia of Epidemiology Springer Science & Business Media

Structural Health Monitoring (SHM) is the interdisciplinary engineering field devoted to the monitoring and assessment of structural health and integrity. SHM technology integrates non-destructive evaluation techniques using remote sensing and smart materials to create smart self-monitoring structures characterized by increased reliability and long life. Its applications are primarily systems with critical demands concerning performance where classical onsite assessment is both difficult and expensive. Advanced Structural Damage Detection: From Theory to Engineering Applications is written by academic experts in the field and provides students, engineers and other technical specialists with a comprehensive review of recent developments in various monitoring techniques and their applications to SHM. Contributing to an area which is the subject of intensive research and development, this book offers both theoretical principles and feasibility studies for a number of SHM techniques. Key features: Takes a multidisciplinary approach and provides a comprehensive review of main SHM techniques Presents real case studies and practical application of techniques for damage detection in different types of structures Presents a number of new/novel data processing algorithms Demonstrates real operating prototypes Advanced Structural Damage Detection: From Theory to Engineering Applications is a comprehensive reference for researchers and engineers and is a useful source of information for graduate students in mechanical and civil engineering

Damage Assessment of Structures VI Springer Science & Business Media

A recipient of the PROSE 2017 Honorable Mention in Chemistry & Physics, Radioactivity: Introduction and History, From the Quantum to Quarks, Second Edition provides a greatly expanded overview of radioactivity from natural and artificial sources on earth, radiation of cosmic origins, and an introduction to the atom and its nucleus. The book also includes historical accounts of the lives, works, and major achievements of many famous pioneers and Nobel Laureates from 1895 to the present. These leaders in the field have contributed to our knowledge of the science of the atom, its nucleus, nuclear decay, and subatomic particles that are part of our current knowledge of the structure of matter, including the role of quarks, leptons, and the bosons (force carriers). Users will find a completely revised and greatly expanded text that includes all new material that further describes the significant historical events on the topic dating from the 1950s to the present. Provides a detailed account of nuclear radiation – its origin and properties, the atom, its nucleus, and subatomic particles including quarks, leptons, and force carriers (bosons) Includes fascinating biographies of the pioneers in the field, including captivating anecdotes and insights Presents meticulous accounts of experiments and calculations used by pioneers to confirm their findings

Race Car Design Elsevier

Focusing on the underlying themes that run through most multivariate methods, in this fully updated 3rd edition of The Essence of Multivariate Thinking Dr. Harlow shares the similarities and differences among multiple multivariate methods to help ease the understanding of the basic concepts. The book continues to highlight the main themes that run through just about every quantitative method, describing the statistical features in clear language. Analyzed examples are presented in 12 of the 15 chapters, showing when and how to use relevant multivariate methods, and how to interpret the findings both from an overarching macro- and more specific micro-level approach that includes focus on statistical tests, effect sizes and confidence intervals. This revised 3rd edition offers thoroughly revised and updated chapters to bring them in line with current information in the field, the addition of R code for all examples, continued SAS and SPSS code for seven chapters, two new chapters on structural equation modeling (SEM) on multiple sample analysis (MSA) and latent growth modeling (LGM), and applications with a large longitudinal dataset in the examples of all methods chapters. Of interest to those seeking clarity on multivariate methods often covered in a statistics course for first-year graduate students or advanced undergraduates, this book will be key reading and provide greater conceptual understanding and clear input on how to apply basic and SEM multivariate statistics taught in psychology, education, human development, business, nursing, and other social and life sciences.

Direct Methods for Limit States in Structures and Materials CRC Press

Based on the principles of engineering science, physics and mathematics, but assuming only an elementary understanding of these, this textbook masterfully explains the theory and practice of the subject. Bringing together key topics, including the chassis frame, suspension, steering, tyres, brakes, transmission, lubrication and fuel systems, this is the first text to cover all the essential elements of race car design in one student-friendly textbook. It avoids the pitfalls of being either too theoretical and mathematical, or else resorting to approximations without explanation of the underlying theory. Where relevant, emphasis is placed on the important role that computer tools play in the modern design process. This book is intended for motorsport engineering students and is the best possible resource for those involved in Formula Student/FSAE. It is also a valuable guide for practising car designers and constructors, and enthusiasts.

Solid Mechanics John Wiley & Sons

The chess pieces knew how they moved. They knew what they wanted too. It wasn't like school, where kids pretended they were masters of the teachers' game. The adults didn't know anything anyway. The real world was a big push to nothing. But Lisa escaped from all that. She found Igor Ivanov. He taught her how to play.

The Changing Face of Representation Elsevier

During the eleventh and twelfth centuries A.D., the Mogollon Rim region of east-central Arizona was a frontier, situated beyond and between larger regional organizations such as Chaco, Hohokam, and Mimbres. On this southwestern edge of the Puebloan world, past settlement poses a contradiction to those who study it. Population density was low and land abundant, yet the region was overbuilt with great kivas, a form of community-level architecture. Using a frontier model to evaluate household, community, and regional data, Sarah Herr demonstrates that the archaeological patterns of the Mogollon Rim region were created by the flexible and creative behaviors of small-scale agriculturalists. These people lived in a land-rich and labor-poor environment in which expediency, mobility, and fluid social organization were the rule and rigid structures and normative behaviors the exception. Herr's research shows that the eleventh- and twelfth-century inhabitants of the Mogollon Rim region were recent migrants, probably from the southern portion of the Chacoan region. These early settlers built houses and ceremonial structures and made ceramic vessels that resembled those of their homeland, but their social and political organization was not the same as that of their ancestors. Mogollon Rim communities were shaped by the cultural backgrounds of migrants, by their liminal position on the political landscape, and by the unique processes associated with frontiers. As migrants moved from homeland to frontier, a reversal in the proportion of land to labor dramatically changed the social relations of production. Herr argues that when the context of production changes in this way, wealth-in-people becomes more valuable than material wealth, and social relationships and cultural symbols such as the great kiva must be reinterpreted accordingly. Beyond Chaco expands our knowledge of the prehistory of this region and contributes to our understanding of how ancestral communities were constituted in lower-population areas of the agrarian Southwest.

Visual Explorations in Finance Springer Science & Business Media

To predict loading limits for structures and structural elements is one of the oldest and most important tasks of engineers. Among the theoretical and numericalmethodsavailableforthispurpose,so-called “ DirectMethods ” ,- bracing Limit- and Shakedown Analysis, play an eminent role due to the fact that they allow rapid access to the requested information in mathematically constructive manners. The collection of papers in this book is the outcome of a workshop held at Aachen University of Technology in November 2007. The individual c- tributions stem in particular from the areas of new numerical developments renderingthemethodsmoreattractive forindustrialdesign,extensionsofthe general methodology to new horizons of application, probabilistic approaches and concrete technological applications. The papers are arranged according to the order of the presentations in the workshop and give an excellent insight into state-of-the-art developments in this broad and growing ?eld of research. The editors warmly thank all the scientists, who have contributed by their outstanding papers to the quality of this edition. Special thanks go to Jaan Simon for his great help in putting together the manuscript to its ?nal shape.

Model Validation and Uncertainty Quantification, Volume 3 Elsevier

Knowing the safety factor for limit states such as plastic collapse, low cycle fatigue or ratcheting is always a major design consideration for civil and mechanical engineering structures that are subjected to loads. Direct methods of limit or shakedown analysis that proceed to directly find the limit states offer a better alternative than exact time-stepping calculations as, on one hand, an exact loading history is scarcely known, and on the other they are much less time-consuming. This book presents the state of the art on various topics concerning these methods, such as theoretical advances in limit and shakedown analysis, the development of relevant algorithms and computational procedures, sophisticated modeling of inelastic material behavior like hardening, non-associated flow rules, material damage and fatigue, contact and friction, homogenization and composites.

Innovative Lightweight and High-Strength Alloys Springer Science & Business Media

This book collects invited lectures presented and discussed on the AMAS & ECCOMAS Workshop/Thematic Conference SMART'o3. The SMART'o3 Conference on Smart Materials and Structures was held in a 19th century palace in Jadwisin near Warsaw, 2-5 September 2003, Poland .It was organized by the Advanced Materials and Structures (AMAS) Centre of Excellence at the Institute of Fundamental Technological Research (IFTR) in Warsaw,ECCOMAS - European Community on Computational Methods in Applied Sciences and SMART-TECH Centre at IFTR. The idea of the workshop was to bring together and consolidate the community of Smart Materials and Structures in Europe. The workshop was attended by 66 participants from n European countries (Austria, Belgium, Finland, France, Germany, Italy, Poland, Portugal, Spain, U.K., Ukraine), 1 participant from Israel and 1 participant from the USA. The workshop program was grouped into the following major topics: 4 sessions on Structural Control (18 presentations), 3 sessions on Vibration Controland Dynamics (14 presentations), 2 sessions on Damage Identification (10 presentations), 2 sessions on Smart Materials (9 presentations). Each session was composed of an invited lecture and some contributed papers. Every paper scheduled in the program was presented, so altogether 51 presentations were given. No sessions were run in parallel. The workshop was attended not only by researchers but also by people closely related to the industry. There were interesting discussions on scientific merits of the presented papers as well as on future development of the field and its possible industrial applications.

State-of-the-art Surveys on Finite Element Technology Elsevier

This book provides an understandable introduction to one approach to design sensitivity computation and illustrates some of the important mathematical and computational issues inherent in using the sensitivity equation method (SEM) for partial differential equations. The authors use basic models to illustrate the computational issues that one might encounter when applying the SEM in a laboratory or research setting, while providing an overview of applications and computational issues regarding sensitivity calculations performed by way of continuous sensitivity equation methods (CSEM).

An Investigation of Fatigue in an Fe-based Metallic Glass by Nanoindentation University of Arizona Press

Ed: SUNY, Buffalo, Revised papers from two conferences, 1992 and 1993.

The Mediterranean Basins CRC Press

Innovative Lightweight and High Strength Alloys: Multiscale Integrated Processing, Experimental, and Modeling Techniques provides multiscale processing, experimental

and modeling techniques overviews and perspectives that highlight current roadblocks to optimal design of new alloys alongside solutions. Critical microstructural, chemical and mechanical aspects are considered with techniques for significantly improving mechanical properties. Case studies, applications and hands-on techniques that can be put into immediate practice are included throughout. Sections cover processing techniques for various alloys, including aluminum, titanium, martensitic, austenitic, and others. Additive manufacturing of alloys is also covered, along with updates on mechanical quasi-static, chemically-based, and dynamic experimentation techniques, and more. The book concludes with a modeling section that features several chapters covering multiscale, microstructural, combinatorial computational, and machine learning modeling techniques. Provides solutions for designing innovative and durable alloys Demonstrates how to optimally combine alloys with other metallic and non-metallic material systems for longer life cycles and better durability in extreme environments and loading conditions Outlines a variety of experimentation, characterization and modeling techniques that can be put into immediate practice

Shaping Communities Springer Science & Business Media

This introductory text presents the applications of the finite element method to the analysis of conduction and convection problems. The book is divided into seven chapters which include basic ideas, application of these ideas to relevant problems, and development of solutions. Important concepts are illustrated with examples. Computer problems are also included to facilitate the types of solutions discussed.

Essentials of Paleomagnetism Routledge

"This book by Lisa Tauxe and others is a marvelous tool for education and research in Paleomagnetism. Many students in the U.S. and around the world will welcome this publication, which was previously only available via the Internet. Professor Tauxe has performed a service for teaching and research that is utterly unique."—Neil D. Opdyke, University of Florida

Lisa Univ of California Press

For nearly forty years Peter Skrzynecki has published poetry that explores the assimilation of post-war immigrants in Australia, chronicling their struggle for identity and acceptance into mainstream society.

Limit States of Materials and Structures University of Michigan Press

In our abundant computing infrastructure, performance improvements across most all application spaces are now severely limited by the energy dissipation involved in processing, storing, and moving data. The exponential increase in the volume of data to be handled by our computational infrastructure is driven in large part by unstructured data from countless sources. This book explores revolutionary device concepts, associated circuits, and architectures that will greatly extend the practical engineering limits of energy-efficient computation from device to circuit to system level. With chapters written by international experts in their corresponding field, the text investigates new approaches to lower energy requirements in computing. Features • Has a comprehensive coverage of various technologies • Written by international experts in their corresponding field • Covers revolutionary concepts at the device, circuit, and system levels

Finite Element Analysis In Heat Transfer Taylor & Francis

Presents information from the field of epidemiology in a less technical, more accessible format. Covers major topics in epidemiology, from risk ratios to case-control studies to mediating and moderating variables, and more. Relevant topics from related fields such as biostatistics and health economics are also included.

Scientific and Technical Aerospace Reports Springer Science & Business Media

A collection of poems.

Legal Data and Information in Practice Trans Tech Publications Ltd

Volume is indexed by Thomson Reuters CPCI-S (WoS). The study of damage evolution, location and characterisation is an important aspect of the growing area of SHM and is a major theme of the conference. The link between SHM and machine condition-monitoring is emphasised by the substantial contribution, to the proceedings, which concerns the application of damage assessment techniques to rotating machines. In order to analyse efficiently the data rich information, provided by monitoring and NDE techniques, it is necessary to use advanced signal processing procedures. A significant proportion of the conference is therefore dedicated to signal processing and computational methods.

Advanced Structural Damage Detection UQP

Annotation Papers presented at technical sessions of an August 2002 conference deal with development of new methods in nonlinear finite elements and other numerical approaches, and with the application of existing techniques to more complex systems using more sophisticated modeling techniques. There are also papers on developments in computational techniques for plastic analysis of structures, including load limit analysis, shakedown analysis, and fatigue analysis. Numerical approaches described include subcycled hourglass control for explicit time integration of dynamic relaxation equations, and finite element analysis of complex corrosion defects. One computational model discussed is limit analysis of shells with a random patterns spread. There is no index. Annotation c. Book News, Inc., Portland, OR (booknews.com).