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The Journal of Industrial Engineering Springer Science & Business Media

Thirty years of spirited school reforms have failed to improve our schools and instead have left our public school systems in disarray. Meanwhile, employment prospects for high school and college graduates are fading, and the public is losing faith in its schools. The education paradigm inherited from the Industrial Era is in crisis. In the last decade, however, the Internet and new Web 2.0 technologies have placed the entirety of human knowledge in the hands of everyone. What will our educational institutions make of this unprecedented flood of Web-based learning resources? How can schools be transformed to accommodate the new possibilities for personal and social learning? Leonard Waks gathers all the pieces of our current educational puzzle together in this groundbreaking book. Drawing on new organizational models grounded in complexity theory, Waks maps out an inspiring new paradigm for education in the Internet age, and connects all the dots in constructing detailed models for new schools—now transformed into "open learning centers." Finally, Waks details action steps readers can take to speed this transformative process along in their own locations.

Inverse Problems in Engineering Mechanics Academic Press

This Primer is intended to provide the theoretical background for the standard undergraduate, mechanical engineering course in dynamics. The book contains several worked examples and summaries and exercises at the end of each chapter to aid readers in their understanding of the material. Teachers who wish to have a source of more detailed theory for the course, as well as graduate students who need a refresher course on undergraduate dynamics when preparing for certain first year graduate school examinations, and students taking the course will find the work very helpful.

Engineering Compendium on Radiation Shielding Springer Science & Business Media

CSIE2012 is an integrated conference concentrating its focus on Computer Science and Information Engineering. In the proceeding, you can learn much more knowledge about Computer Science and Information Engineering of researchers from all around the world. The main role of the proceeding is to be used as an exchange pillar for researchers who are working in the mentioned fields. In order to meet the high quality of Springer, AISC series, the organization committee has made their efforts to do the following things. Firstly, poor quality paper has been refused after reviewing course by anonymous referee experts. Secondly, periodically review meetings have been held around the reviewers about five times for exchanging reviewing suggestions. Finally, the conference organizers had several preliminary sessions before the conference. Through efforts of different people and departments, the conference will be successful and

fruitful.

Engineering Science N4 Cambridge University Press

Engineering system dynamics focuses on deriving mathematical models based on simplified physical representations of actual systems, such as mechanical, electrical, fluid, or thermal, and on solving these models for analysis or design purposes. System Dynamics for Engineering Students: Concepts and Applications features a classical approach to system dynamics and is designed to be utilized as a one-semester system dynamics text for upper-level undergraduate students with emphasis on mechanical, aerospace, or electrical engineering. It is the first system dynamics textbook to include examples from compliant (flexible) mechanisms and micro/nano electromechanical systems (MEMS/NEMS). This new second edition has been updated to provide more balance between analytical and computational approaches; introduces additional in-text coverage of Controls; and includes numerous fully solved examples and exercises. Features a more balanced treatment of mechanical, electrical, fluid, and thermal systems than other texts. Introduces examples from compliant (flexible) mechanisms and MEMS/NEMS. Includes a chapter on coupled-field systems. Incorporates MATLAB® and Simulink® computational software tools throughout the book. Supplements the text with extensive instructor support available online: instructor's solution manual, image bank, and PowerPoint lecture slides. NEW FOR THE SECOND EDITION Provides more balance between analytical and computational approaches, including integration of Lagrangian equations as another modelling technique of dynamic systems. Includes additional in-text coverage of Controls, to meet the needs of schools that cover both controls and system dynamics in the course. Features a broader range of applications, including additional applications in pneumatic and hydraulic systems, and new applications in aerospace, automotive, and bioengineering systems, making the book even more appealing to mechanical engineers. Updates include new and revised examples and end-of-chapter exercises with a wider variety of engineering applications.

Integral Methods in Science and Engineering Springer Science & Business Media

In this edited book various novel approaches to problems of current interest in civil engineering are demonstrated. The topics range from dynamic band seismic problems to the analysis of long-span structures and ancient buildings. Experts associated within the Lagrange Laboratory present recent research results on functionally-graded or composite materials, granular materials, geotechnics, as well as frictional or adhesive contact problems.

Formal Methods and Stochastic Models for Performance Evaluation Elsevier
The desire to understand the mechanics of elastic and plastic solids, new materials and the stability, reliability and dynamic behaviour of structures and their components under extreme environmental conditions has dominated research in structural engineering for many decades. Advances in these areas have revolutionized design methods, codes of practice, and the teaching of structural engineers. In this volume an international body of leading authorities presents some forty papers on current research directions in the specific areas of solid mechanics, structural computation, modern materials and their application, buckling and instability, design of structural systems and components, reliability, seismic analysis, and engineering education. They were presented at a symposium held July 10-12, 1994, at the University of Waterloo, Canada, to honour Professor Archibald Norbert Sherbourne who recently retired from a long and active career of teaching, research and academic administration at this University. The themes of the work contained within this volume reflect Professor Sherbourne's own research interests and will be of interest to both academics and practicing structural engineers.

Advances in Computer Science and Information Engineering CRC Press

Highly effective thinking is an art that engineers and scientists can be taught to develop. By presenting actual experiences and analyzing them as they are described, the author conveys the developmental thought processes employed and shows a style of thinking that leads to successful results is something that can be learned. Along with spectacular successes, the author also conveys how failures contributed to shaping the thought processes. Provides the reader with a style of thinking that will enhance a person's ability to function as a problem-solver of complex technical issues. Consists of a collection of stories about the author's participation in significant discoveries, relating how those discoveries came about and, most importantly, provides analysis about the thought processes and reasoning that took place as the author and his associates progressed through engineering problems.

Nuclear Science and Engineering Springer Science & Business Media

The author explains the theoretical underpinnings of generalized linear models so that researchers can decide how to select the best way to adapt their data for this type of analysis. Examples are provided to illustrate the application of GLM to actual data and the author includes his Web address where additional resources can be found.

Engineering Dynamics Springer Science & Business Media

This second edition of The Illustrated Wavelet Transform Handbook: Introductory Theory and Applications in Science, Engineering, Medicine and Finance has been fully updated and revised to reflect recent developments in the theory and practical applications of wavelet transform methods. The book is designed specifically for the applied reader in science, engineering, medicine and finance. Newcomers to the subject will find an accessible and clear account of the theory of continuous and discrete wavelet transforms, while readers already acquainted with wavelets can use the book to broaden their perspective. One of the many strengths of the book is its use of several hundred illustrations, some in colour, to convey key concepts and their varied practical uses. Chapters exploring these practical applications highlight both the similarities and differences in wavelet transform methods across different disciplines and also provide a comprehensive list of over 1000 references that will serve as a valuable resource for further study. Paul Addison is a Technical Fellow with Medtronic, a global medical technology company. Previously, he was co-founder and CEO of start-up company, CardioDigital Ltd (and later co-founded its US subsidiary, CardioDigital Inc) - a company concerned with the development of novel wavelet-based methods for biosignal analysis. He has a master's degree in engineering and a PhD in fluid mechanics, both from the University of Glasgow, Scotland (founded 1451). His former academic life as a tenured professor of fluids engineering included the output of a large number of technical papers, covering many aspects of engineering and bioengineering, and two textbooks: Fractals and Chaos: An Illustrated Course and the first edition of The Illustrated Wavelet Transform Handbook. At the time of publication, the author has over 100 issued US patents concerning a wide range of medical device technologies, many of these concerning the wavelet transform analysis of biosignals. He is both a Chartered Engineer and Chartered Physicist.

The Illustrated Wavelet Transform Handbook Pearson South Africa
Statistics and Probability for Engineering Applications provides a complete discussion of all the major topics typically covered in a college engineering statistics course. This textbook minimizes the derivations and mathematical theory, focusing instead on the information and techniques most needed and used in engineering applications. It is filled with practical techniques directly applicable on the job. Written by an experienced industry engineer and statistics professor, this book makes learning statistical methods easier for today's student. This book can be read sequentially like a normal textbook, but it is designed to be used as a handbook, pointing the reader to the topics and sections pertinent to a particular type of statistical problem. Each new concept is clearly and briefly described, whenever possible by relating it to previous topics. Then the student is given carefully chosen examples to deepen understanding of the basic ideas and how they are applied in engineering. The examples and case studies are taken from real-world engineering problems and use real data. A number of practice problems are provided for each section, with answers in the back for selected problems. This book will appeal to engineers in the entire engineering spectrum (electronics/electrical,

mechanical, chemical, and civil engineering); engineering students and students taking computer science/computer engineering graduate courses; scientists needing to use applied statistical methods; and engineering technicians and technologists. * Filled with practical techniques directly applicable on the job * Contains hundreds of solved problems and case studies, using real data sets * Avoids unnecessary theory

Multiscale Phenomena in Plasticity: From Experiments to Phenomenology, Modelling and Materials Engineering Elsevier
Nonlinear Approaches in Engineering Applications focuses on nonlinear phenomena that are common in the engineering field. The nonlinear approaches described in this book provide a sound theoretical base and practical tools to design and analyze engineering systems with high efficiency and accuracy and with less energy and downtime. Presented here are nonlinear approaches in areas such as dynamic systems, optimal control and approaches in nonlinear dynamics and acoustics. Coverage encompasses a wide range of applications and fields including mathematical modeling and nonlinear behavior as applied to microresonators, nanotechnologies, nonlinear behavior in soil erosion, nonlinear population dynamics, and optimization in reducing vibration and noise as well as vibration in triple-walled carbon nanotubes.

Intelligent Computing in Engineering and Architecture Routledge

Issues for Nov. 1957- include section: Accessions. Aanwinste, Sept. 1957-
The Forced Vibration of Circular Flat Plates Springer Science & Business Media
Evolutionary algorithms are general-purpose search procedures based on the mechanisms of natural selection and population genetics. They are appealing because they are simple, easy to interface, and easy to extend. This volume is concerned with applications of evolutionary algorithms and associated strategies in engineering. It will be useful for engineers, designers, developers, and researchers in any scientific discipline interested in the applications of evolutionary algorithms. The volume consists of five parts, each with four or five chapters. The topics are chosen to emphasize application areas in different fields of engineering. Each chapter can be used for self-study or as a reference by practitioners to help them apply evolutionary algorithms to problems in their engineering domains.

Kaapse bibliotekaris Springer Science & Business Media

This book constitutes the refereed proceedings of the 4th European Performance Engineering Workshop, EPEW 2007, held in Berlin, Germany, September 27-28, 2007. The 20 revised full papers presented were carefully reviewed and selected from 53 submissions. The papers are organized in topical sections on Markov Chains, Process Algebra, Wireless Networks, Queueing Theory and Applications of Queueing, Benchmarking and Bounding, Grid and Peer-to-Peer Systems.
Advanced Information Systems Engineering Springer Science & Business Media

This friendly guide is the companion you need to convert pure mathematics into understanding and facility with a host of probabilistic tools. The book provides a high-level view of probability and its most powerful applications. It begins with the basic rules of probability and quickly progresses to some of the most sophisticated modern techniques in use, including Kalman filters, Monte Carlo techniques, machine learning methods, Bayesian inference and stochastic processes. It draws on thirty years of experience in applying probabilistic methods to problems in computational science and engineering, and numerous practical examples illustrate where these techniques are used in the real world. Topics of discussion range from carbon dating to Wasserstein GANs, one of the most recent developments in Deep Learning. The underlying mathematics is presented in full, but clarity takes priority over complete rigour, making this text a starting reference source for researchers and a readable overview for students.

Statistics and Probability for Engineering Applications Springer Science & Business Media

"Advances in Water Resources and Hydraulic Engineering - Proceedings of 16th IAHR-APD Congress and 3rd Symposium of IAHR-ISHS" discusses some serious problems of sustainable development of human society related to water

resources, disaster caused by flooding or draught, environment and ecology, and introduces latest research in river engineering and fluvial processes, estuarine and coastal hydraulics, hydraulic structures and hydropower hydraulics, etc. The proceedings covers new research achievements in the Asian-Pacific region in water resources, environmental ecology, river and coastal engineering, which are especially important for developing countries all over the world. This proceedings serves as a reference for researchers in the field of water resources, water quality, water pollution and water ecology. Changkuan Zhang and Hongwu Tang both are professors at Hohai University, China.

Nonlinear Approaches in Engineering Applications World Scientific

This book constitutes the refereed proceedings of the 13th International Conference on Advanced Information Systems Engineering, CAiSE 2001, held in Interlaken, Switzerland in June 2001. The 27 revised full papers presented together with three invited papers, three experience reports, and a panel summary were carefully reviewed and selected from a total of 97 submissions. The papers are organized in topical sections on requirements engineering, agent-based approaches, workflow management, data models and design, reuse and method engineering, XML and information systems integration, evolution, and conceptual modeling.

Current Index to Journals in Education SAGE Publications

Inverse problems can be found in many topics of engineering mechanics. There are many successful applications in the fields of inverse problems (non-destructive testing and characterization of material properties by ultrasonic or X-ray techniques, thermography, etc.). Generally speaking, the inverse problems are concerned with the determination of the input and the characteristics of a mechanical system from some of the output from the system. Mathematically, such problems are ill-posed and have to be overcome through development of new computational schemes, regularization techniques, objective functionals, and experimental procedures. Seventy-two papers were presented at the International Symposium on Inverse Problems in Mechanics (ISIP '98) held in March of 1998 in Nagano, where recent developments in the inverse problems in engineering mechanics and related topics were discussed. The main themes were: mathematical and computational aspects of the inverse problems, parameter or system identification, shape determination, sensitivity analysis, optimization, material property characterization, ultrasonic non-destructive testing, elastodynamic inverse problems, thermal inverse problems, and other engineering applications.

Proceedings, Fifteenth Annual Meeting of the Society of Engineering Science, Inc., December 4, 5 & 6, 1978 at Gainesville Springer Science & Business Media

The need has arisen for a comprehensive handbook for engineers faced with problems of radiation shielding design. Although there are several excellent books on shielding, they either do not give enough consideration to the many practical design problems, or are limited to special aspects of the subject. Recognizing the universal need, the International Atomic Energy Agency decided to sponsor the publication of the present Engineering Compendium on Radiation Shielding. At the first editorial discussions it was agreed that, if such a book were to be undertaken, it would be appropriate not only to create a useful design tool for the practising engineer but also to include well-referenced basic data for the research worker. Although trying to keep the book down to a reasonable size, the editors have aimed at a complete presentation of the subject, covering and linking both the technology and the science of shielding. Efforts to make terms and definitions consistent throughout have been only partially successful, owing to the continuing development of new ideas. However, inconsistencies that could not be eliminated are identified whenever possible.

Trends in Structural Mechanics CRC Press

Engineering Science N4 Pearson South Africa
Nuclear Science and Engineering Mathematical Methods for the Natural and Engineering Sciences
World Scientific