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Quantum Mechanics - Herbert Kroemer 1994
This widely anticipated book by a leading expert in the field, is designed to meet the changing quantum mechanics needs of general and applied physicists involved in such areas as solid state research, quantum electronics, materials science, etc. This book uses new and less abstract ways to present formal concepts. For electrical engineers in the semiconductor areas.
Engineering Analysis in Applied Mechanics - John W. Brewer 2002-01-11
Engineering Analysis in Applied Mechanics is composed of two basic parts: the mathematical foundations in Chapters 1 through 3 and the final three chapters on specialized topics in engineering physics. Chapters 5 and 6 are devoted to solid mechanics and dynamics. The text surveys the mathematical foundations of applied mechanics. The sections on engineering mathematics includes treatments of simultaneous algebraic and differential equations, matrix algebra, the theory of optimization and the calculus of variations. The author pays considerable attention to engineering applications in theoretical thermodynamics, strength of materials and Langranian-Hamiltonian dynamics. This text is recommended for advanced undergraduate and graduate students and a familiarity with Matlab or Mathcad is suggested.
Design and Analysis of Integrated Manufacturing Systems - W. Dale Compton 1988-02-01
Design and Analysis of Integrated Manufacturing Systems is a fresh look at manufacturing from a systems point of view. This collection of papers from a symposium sponsored by the National Academy of Engineering explores the need for new technologies, the more effective use of new tools of analysis, and the improved integration of all elements of manufacturing operations, including machines, information, and humans. It is one of the few volumes to include detailed proposals for research that match the needs of industry.
Computerworld - 1997-04-07
For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.
Ninth Conference on Production Research and Technology - 1981

Wireless Sensor Networks - Kazem Sohraby 2007-04-06
Infrastructure for Homeland Security Environments Wireless Sensor Networks helps readers discover the emerging field of low-cost standards-based sensors that promise a high order of spatial and temporal resolution and accuracy in an ever-increasing universe of applications. It shares the latest advances in science and engineering paving the way towards a large plethora of new applications in such

areas as infrastructure protection and security, healthcare, energy, food safety, RFID, ZigBee, and processing. Unlike other books on wireless sensor networks that focus on limited topics in the field, this book is a broad introduction that covers all the major technology, standards, and application topics. It contains everything readers need to know to enter this burgeoning field, including current applications and promising research and development; communication and networking protocols; middleware architecture for wireless sensor networks; and security and management. The straightforward and engaging writing style of this book makes even complex concepts and processes easy to follow and understand. In addition, it offers several features that help readers grasp the material and then apply their knowledge in designing their own wireless sensor network systems: * Examples illustrate how concepts are applied to the development and application of * wireless sensor networks * Detailed case studies set forth all the steps of design and implementation needed to solve real-world problems * Chapter conclusions that serve as an excellent review by stressing the chapter's key concepts * References in each chapter guide readers to in-depth discussions of individual topics This book is ideal for networking designers and engineers who want to fully exploit this new technology and for government employees who are concerned about homeland security. With its examples, it is appropriate for use as a coursebook for upper-level undergraduates and graduate students.

Microwave Journal - 1977

Monthly Catalog of United States Government Publications - 1985

Journal of Atmospheric and Oceanic Technology - 1996

A Unified Sediment Transport Formulation for Coastal Inlet Application - Benoît Camenen 2007 The Coastal Inlets Research Program (CIRP) is developing predictive numerical models for simulating the waves, currents, sediment transport, and morphology change at and around coastal inlets. Water motion at a coastal inlet is a combination of quasi-steady currents such as river flow, tidal current, wind-generated

current, and seiching, and of oscillatory flows generated by surface waves. Waves can also create quasi-steady currents, and the waves can be breaking or non-breaking, greatly changing potential for sediment transport. These flows act in arbitrary combinations with different magnitudes and directions to mobilize and transport sediment. Reliable prediction of morphology change requires accurate predictive formulas for sediment transport rates that smoothly match in the various regimes of water motion. This report describes results of a research effort conducted to develop unified sediment transport rate predictive formulas for application in the coastal inlet environment. The formulas were calibrated with a wide range of available measurements compiled from the laboratory and field and then implemented in the CIRP's Coastal Modeling System. Emphasis of the study was on reliable predictions over a wide range of input conditions. All relevant physical processes were incorporated to obtain greatest generality, including: (1) bed load and suspended load, (2) waves and currents, (3) breaking and non-breaking waves, (4) bottom slope, (5) initiation of motion, (6) asymmetric wave velocity, and (7) arbitrary angle between waves and current. A large database on sediment transport measurements made in the laboratory and the field was compiled to test different aspects of the formulation over the widest possible range of conditions. Other phenomena or mechanisms may also be of importance, such as the phase lag between water and sediment motion or the influence of bed forms. Modifications to the general formulation are derived to take these phenomena into account. The.

Shaping the Future of South Africa's Youth - Helene Perold 2012 Why solving ongoing problems with the NQF (National Qualifications Framework) matters -- The challenges unemployment imposes on youth -- The challenge of youth-to-work transitions: an international perspective -- A statistical overview of further education and training colleges -- Strengthening the capacity of FET Colleges to meet the needs of young people -- Higher education and an expanded post-school educational system -- Trends in training in South Africa -- Key issues in the assessment of South

Africa's national skills development strategy -- Opening the doors of learning? Viewing the post-school education and training landscape from a youth perspective.

Geospatial Technology for Earth Observation - Deren Li 2009-09-18
Earth Observation interacts with space, remote sensing, communication, and information technologies, and plays an increasingly significant role in Earth related scientific studies, resource management, homeland security, topographic mapping, and development of a healthy, sustainable environment and community. Geospatial Technology for Earth Observation provides an in-depth and broad collection of recent progress in Earth observation. Contributed by leading experts in this field, the book covers satellite, airborne and ground remote sensing systems and system integration, sensor orientation, remote sensing physics, image classification and analysis, information extraction, geospatial service, and various application topics, including cadastral mapping, land use change evaluation, water environment monitoring, flood mapping, and decision making support. Geospatial Technology for Earth Observation serves as a valuable training source for researchers, developers, and practitioners in geospatial science and technology industry. It is also suitable as a reference book for upper level college students and graduate students in geospatial technology, geosciences, resource management, and informatics.

Scientific and Technical Aerospace Reports - 1992

FCC Record - United States. Federal Communications Commission 2012

Loose Boundary Hydraulics - Arved J. Raudkivi 2020-12-18
This text looks at sediment transport, two-phase flow and loose boundary hydraulics which are some of the names used to identify problems of interaction between fluid flow (water or air) and its boundaries that may be non-cohesive (alluvial) or cohesive.

Application (re)engineering - Amjad Umar 1997
75003-4 Building advanced Web-based

enterprise applications: a comprehensive, systematic approach. Three technologies are converging to dramatically change the nature of application development: client/server, object-orientation, and the Internet. This book is a complete guide to successfully integrating all of these technologies in your new enterprise applications. Expert consultant and project manager Dr. Amjad Umar shows how to establish data architectures, application architectures, and frameworks that enable successful Web-based software development. He presents a detailed methodology for using middleware to engineer new applications--or reengineer existing ones. He also offers a systematic approach to cope with legacy systems--including legacy data access, data warehousing and application migration/transition strategies. For each major issue confronting developers, Umar considers the state of today's marketplace, as well as trends that will powerfully impact development projects in the near future. The book contains extensive guidelines, implementation examples and case studies, using a wide range of technologies, including: CORBA. ActiveX. PowerBuilder. Encina. CGI and other Web gateways The book includes short tutorials on object-oriented concepts, distributed objects, the World Wide Web, and client/server middleware. Each chapter is written as a self-contained tutorial--making the book a valuable resource not only for IT professionals, but also for trainers, teachers, and advanced students.

Strengthening Forensic Science in the United States - National Research Council 2009-07-29
Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new

government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Simultaneous Engineering for New Product Development - Jack Ribbens 2000-02-14
An integrated, highly practical approach to product developmentusing simultaneous engineering Industrial engineers and designers as well as managers working on new product development (NPD) typically do not have the time or the expertise to get involved in functions outside their immediate area. Yet the very nature of NPD requires a number of functions and processes to be performed concurrently. This is where simultaneous engineering comes in. Simultaneous Engineering for New Product Development offers state-of-the-art, integrated coverage of these two hot topics in manufacturing. Industry expert Jack Ribbens draws on firsthand experience with the successful application of simultaneous engineering in the automotive industry, discussing how this approach can help streamline the entire development and production process, resulting in high-quality, competitive goods. He examines all phases of the process, devoting a chapter to each key element-from market research to design and engineering to manufacturing, selling, and customer service and support. And while most books on concurrent engineering stress the theoretical aspects of the field, Ribbens's book is decidedly practical, complete with case studies from the

automotive, aerospace, heavy vehicle, and electronic industries that can be applied to any manufactured product. With mathematical model development as well as useful graphs, checklists, and references, Simultaneous Engineering for New Product Development will help manufacturing professionals take advantage of new trends and technologies in manufacturing well into the twenty-first century.
NASA Reference Publication - United States. National Aeronautics and Space Administration 1977

Ocean Structures - Srinivasan Chandrasekaran 2017-01-06
This book addresses the concepts of material selection and analysis, choice of structural form, construction methods, environmental loads, health monitoring, non-destructive testing, and repair methodologies and rehabilitation of ocean structures. It examines various types of ocean and offshore structures, including drilling platforms, processing platforms and vessels, towers, sea walls and surge barriers, and more. It also explores the use of MEMS in offshore structures, with regard to military and oil exploration applications. Full-color figures as well as numerous solved problems and examples are included to help readers understand the applied concepts.
Title List of Documents Made Publicly Available - U.S. Nuclear Regulatory Commission 1982

Micromechatronics - Victor Giurgiutiu 2003-12-29
Mechatronics-the breakthrough concept in the design and analysis of electromechanical systems and the unified cornerstone of modern engineering. Microsystems-the future of technology, but fraught with the challenges inherent at small scales. Apply the power and versatility of mechatronics to microsystems and we find a way to attack, integrate, and solve a great variety of emerging engineering problems. Micromechatronics: Modelling, Analysis, and Design with MATLAB synthesizes traditional engineering topics and the latest technologies to build a solid understanding of the engineering underpinnings of integrated technologies and develop the modern picture of microelectromechanical engineering.

Emphasizing the modeling, simulation, analysis, design, and implementation of high-performance mini-and microscale electromechanical systems, the authors develop the rigorous theory, demonstrate the application of theoretical results, and explore state-of-the-art technologies. MATLAB is used throughout the book to illustrate practical examples and help readers master this powerful, industry-standard software. The application of mechatronics, particularly micromechatronics, is an endless frontier. All engineers will soon need a working knowledge of the theoretical bases and their practical applications. Comprehensive in coverage and global in perspective, Micromechatronics: Modeling, Analysis, and Design with MATLAB helps build the background you need to design and analyze state-of-the-art systems and contribute to further advancements.

Annual Report of the Maritime Administration - United States. Maritime Administration 1987

Catalog of Technical Reports - United States. Dept. of Commerce. Office of Technical Services

The Assam Gazette - Assam (India) 1964

Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data - 2003
CI/ASCE Standard 38-02 presents a credible system for classifying the quality of utility location information that is placed in design plans. The Standard addresses issues such as: how utility information can be obtained, what technologies are available to obtain that information; how that information can be conveyed to the information users; who should be responsible for typical collection and depiction tasks; what factors determine which utility quality level attribute to assign to data; and what the relative costs and benefits of the various quality levels are. Used as a reference or as part of a specification, the Standard will assist engineers, project and utility owners, and constructors in developing strategies to reduce risk by improving the reliability of information on existing subsurface utilities in a defined manner.

Data Processing and Programming - United States. Dept. of Commerce. Official of Technical Services 1963

Millimeter Wave Radar - Stephen L. Johnston 1980

Biofluid Mechanics in Cardiovascular Systems - Lee Waite 2005-11-15
Biofliudics has gained in importance in recent years, forcing engineers to redefine mechanical engineering theories and apply them to biological functions. To date, no book has successfully done this. Biofliud Mechanics in Cardiovascular Systems is one of the first books to take an interdisciplinary approach to the subject. Written by a professor and researcher, this book will combine engineering principles with human biology to deliver a text specifically designed for biomedical engineering professionals and students.

Current Catalog - National Library of Medicine (U.S.) 1970
First multi-year cumulation covers six years: 1965-70.

1st AIAA Aircraft Engineering, Technology, and Operations Congress - 1996

Business Engineering with Object Technology - David A. Taylor 1995-01-25
Relays how to use the fast growing field of object technology to solve business systems design and re-engineering problems, employing ideas, examples, and designs drawn from the author's real-world experiences. Original. (All Users)

MARAD, the Annual Report of the Maritime Administration - United States. Maritime Administration 1981

Cryogenic Foam Insulation: Abstracted Publications - Frank R. Williamson 1977

Corrosion-Resist Coatings - Ichiro Suzuki 1989-07-17
Helping engineers select and apply widely used metallic, inorganic and organic coatings in natural environments, this authoritative focuses on coatings that protect against moisture, water, pollutants, and aggressive speciues. It closely examines their protective mechanisms,

production methods, physical and chemical properties and protective abilities in various environments.

OTS Selective Bibliography -

Computer-Organized Cost Engineering - Samid 1990-07-27
Providing a sequence of steps for matching cost engineering needs with helpful computer tools, this reference addresses the issues of project complexity and uncertainty; cost estimation, scheduling, and cost control; cost and result uncertainty; engineering and general purpose software; utilities th

MARAD '87. Annual Report of the Maritime Administration for Fiscal Year 1987 - 1988

Sea Grant Publications Index - 1968

Research and Development in the U.S. Army Corps of Engineers - Damon Manders 2011