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Superconducting Accelerator Magnets

The History of the CIA

Soccer Robotics

Foundations, Tools, and Applications

Multiscale Cancer Modeling

Combined Membership List of the American Mathematical Society, Mathematical Association of America, and the Society for Industrial and Applied Mathematics

Scanning Probe Lithography

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Shadow Education as Worldwide Curriculum Studies

Who's Who in Science and Engineering 2008-2009

KSEA Newsletter Vol. 48 No. 1

Systems Metabolic Engineering

12th International Conference, IHCI 2020, Daegu, South Korea, November 24-26, 2020, Proceedings, Part II

For Aerospace, Civil and Mechanical Systems

Hortus Kewensis; or, a catalogue of the plants cultivated in the Royal Botanic Garden at Kew

RITA 2018

Therapeutic Angiogenesis

IEEE Membership Directory

Proceedings of the 6th International Conference on Robot Intelligence Technology and Applications

Resistive Switching

Proceedings, International Conference on Image Processing

Coherent Multidimensional Spectroscopy

Electrochemical Capacitors: Fundamentals to Applications

6th Pacific Rim Conference on Multimedia, Jeju Island, Korea, November 11-13, 2005, Proceedings

## Expert Systems for Fatigue Life Predictions (CD Included)

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### PAMELA JAXON

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#### *Superconducting Accelerator Magnets*

Woodhead Publishing

The two-volume set LNCS 12615 + 12616 constitutes the refereed proceedings of the 12th International Conference on Intelligent Human Computer Interaction, IHCI 2020, which took place in Daegu, South Korea, during November 24-26, 2020. The 75 full and 18 short papers included in these proceedings were carefully reviewed and selected from a total of 185 submissions. The papers were organized in topical sections named: cognitive modeling and systems; biomedical signal processing and complex problem solving; natural language, speech, voice and study; algorithms and related applications; crowd sourcing and information analysis; intelligent usability and test system; assistive living; image processing and deep learning; and human-centered AI applications.

**The History of the CIA** John Wiley & Sons

The main topic of the book are the superconducting dipole and quadrupole magnets needed in high-energy accelerators and storage rings for protons, antiprotons or heavy ions. The basic principles of low-temperature superconductivity are outlined with special emphasis on the effects which are relevant for accelerator magnets. Properties and fabrication methods of practical superconductors are described. Analytical methods for field calculation and multipole expansion are presented for coils without and with iron yoke. The

effect of yoke saturation and geometric distortions on field quality is studied. Persistent magnetization currents in the superconductor and eddy currents the copper part of the cable are analyzed in detail and their influence on field quality and magnet performance is investigated. Superconductor stability, quench origins and propagation and magnet protection are addressed. Some important concepts of accelerator physics are introduced which are needed to appreciate the demanding requirements on field quality in large storage rings. The operational experience with the superconducting HERA collider serves as an illustration. Finally superconducting correction coils and practical construction and fabrication methods of accelerator magnets are discussed. The physical and technical principles described in the book are substantiated with a wealth of experimental data on multipoles, persistent- and eddy-current effects, quench performance and much more.

*Soccer Robotics* World Scientific

A concise, beautifully illustrated historical atlas of Korean history, specifically designed for English-speaking students of Korean and East Asian history.

*Foundations, Tools, and Applications*

Springer

Throughout the last several decades, Korean companies have become strong global competitors in a wide range of manufacturing industries. How did they achieve this exceptional performance? The Evolution of Tiger Management uncovers the secret of their success through a comprehensive analysis of Korean-style management. It explains how it has developed, why it works so well, what non-Koreans can learn from it,

and what Korean companies need to do to stay competitive in the future. This book is an extended and significantly updated new edition of *Tiger Management: Korean companies on world markets* (Routledge, 2012). It tells the remarkable stories of how Korean firms, seemingly coming from nowhere, have successfully challenged their Western and Japanese competitors globally. A new chapter highlights the rise of Korean venture firms and start-ups. Next, the essence of *Tiger Management* is analyzed by showing that it consists of an effective combination of business strategy, leadership, and human resource management practices. Finally, the evolution and future of *Tiger Management* is discussed by showing how Korean companies have adapted to changes at home and abroad, and how non-Korean companies can adopt *Tiger Management*. A new final chapter discusses the way forward for Korean companies.

*Multiscale Cancer Modeling* Routledge

This monograph is a comprehensive introduction to the field of soccer robotics. Soccer robotics has become an important research area integrating mechatronics, computer science and artificial intelligence techniques to create real-world autonomous systems. It also serves as a popular test arena in which to compare the different approaches, in diverse types of competition and with varying levels of distributed perception and collaboration. The focus of this monograph is the FIRA framework of Soccer Robotics, in particular MiroSot, which uses a central overhead camera to overview the whole soccer field and a central control of the robots. "Soccer Robotics" completely describes the different requirements to

create a soccer team and details the hardware aspects, the computer vision needed, navigation, action selection, basic skills and game strategy. These aspects are described at an undergraduate level, resulting in a book not only useful as a text for courses but also indispensable for everyone who wants to participate in MiroSot robotics. Nova Science Publishers

Author Biography: Jiho Song is Professor Emeritus of Mechanical Engineering at Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea. He received his B.S. (1969), M.S. (1971) and Dr. Engineering (1974) in Mechanical Engineering at Osaka University, Osaka, Japan, under the guidance of Professor Makoto Kikukawa. In 1975, he was Wissenschaftlicher Mitarbeiter in Lehrstuhl Mechanik A at Technische Universität München, Munich, Germany, with the help of Professor Klaus Heckel. In 1977 He joined Hanyang University, Seoul, Korea and then moved to Osaka University, Japan, in 1982 as a Research Associate with the support of Professor Masahiro Jono. He returned to Korea in 1985 as a Professor at KAIST, becoming Professor Emeritus in 2011. He taught courses in fatigue, strength design, reliability engineering, and design engineering. He received four times departmental outstanding teaching awards. His principal field of research is fatigue and fatigue-related database and expert system. He published several books: *Fatigue Cracks-Crack Closure and Growth Rate Prediction*, (in Japanese) in 2005 with Professor Masahiro Jono, (in Korean) in 2006. *Introduction to Reliability Engineering*, (in Korean) in 2007. *Dictionary of Fatigue Fracture and Fatigue Strength of Materials* (FatiguePedia of Materials), (in Korean)

in 2011. Fundamentals of Fatigue Analysis, (in Korean) in 2016. Book Description: Fatigue of materials is very important in designing mechanical structures and components. Recently, fatigue databases, databanks and some computer software have been developed for fatigue analysis or fatigue life predictions, and some of them have been commercially available. Those fatigue databases and fatigue analysis software tools are clearly very helpful for the design and analysis engineers to select materials, analyze fatigue performance or estimate fatigue life of structures and components. In order to utilize those databases and software tools successfully in practice, engineers as users are implicitly required to have, more or less, wide and deep, and sometimes even advanced knowledge of fatigue; in other words, this book conveys considerable expertise in fatigue. However, most of the design and analysis engineers do not always have sufficient knowledge in fatigue and therefore, it is not yet easy for them to conduct fatigue design and analysis successfully, although there are many databases and software tools available. An expert system is a very useful, convenient and powerful tool for ordinary engineers to treat complicated engineering problems such as fatigue design and analysis, which require considerable expertise. Although the importance of fatigue expert systems has long been recognized, there is hardly any practically available fatigue expert system to date. Over many years, the authors have been developing some expert systems for fatigue assessment, particularly for the estimation of fatigue properties and for fatigue crack initiation life prediction under variable loading. Recently, in response to a scientific

research result, the authors have developed a practically applicable version. They think that the expert system developed is probably the first and only fatigue expert system in the world. This book introduces in detail the expert systems developed and provides the expert system software, most probably in CD. Although it is not developed for commercial purposes, the system software is very easy to use. This book and the fatigue expert system software may be useful for nearly all engineers, researchers and technologists from the academic, industrial and government sectors who engage in engineering design and the maintenance of structures. This book is also designed for advanced undergraduate and beginning graduate-level engineering students in universities, particularly in the department of mechanical engineering, aerospace engineering, civil engineering and metallurgy. Target Audience: Nearly all engineers, researchers and technologists from the academic, industrial and government sectors who engage in engineering design and maintenance of structures. Advanced undergraduate and beginning graduate-level engineering students in universities, particularly in the department of mechanical engineering, aerospace engineering, civil engineering, and metallurgy.

*Combined Membership List of the American Mathematical Society, Mathematical Association of America, and the Society for Industrial and Applied Mathematics* Springer Science & Business Media

The two volume set LNCS 3767 and LNCS 3768 constitutes the refereed proceedings of the 6th Pacific Rim Conference on Multimedia, PCM 2005, held in Jeju Island, Korea in November

2005. The 181 revised papers presented were carefully reviewed and selected from a total of 570 submissions. The papers cover a wide range of topics, including all aspects of multimedia, both technical and artistic perspectives and both theoretical and practical issues. Besides papers that focus on traditional topics, such as multimedia communications, audio-visual compressions, multimedia security, image and signal processing techniques, and multimedia data processing, there are also artistic papers which need not to be strictly technical.

Scanning Probe Lithography Expert Systems for Fatigue Life Predictions (CD Included)

Scanning Probe Lithography (SPL) describes recent advances in the field of scanning probe lithography, a high resolution patterning technique that uses a sharp tip in close proximity to a sample to pattern nanometer-scale features on the sample. SPL is capable of patterning sub-30nm features with nanometer-scale alignment registration. It is a relatively simple, inexpensive, reliable method for patterning nanometer-scale features on various substrates. It has potential applications for nanometer-scale research, for maskless semiconductor lithography, and for photomask patterning. The authors of this book have been key players in this exciting new field. Calvin Quate has been involved since the beginning in the early 1980s and leads the research team that is regarded as the foremost group in this field. Hyongsok Tom Soh and Kathryn Wilder Guarini have been the members of this group who, in the last few years, have brought about remarkable series of advances in SPM lithography. Some of these advances have been in the control of the

tip which has allowed the scanning speed to be increased from  $\mu\text{m}/\text{second}$  to  $\text{mm}/\text{second}$ . Both non-contact and in-contact writing have been demonstrated as has controlled writing of sub-100 nm lines over large steps on the substrate surface. The engineering of a custom-designed MOSFET built into each microcantilever for individual current control is another notable achievement. Micromachined arrays of probes each with individual control have been demonstrated. One of the most intriguing new aspects is the use of directly-grown carbon nanotubes as robust, high-resolution emitters. In this book the authors concisely and authoritatively describe the historical context, the relevant inventions, and the prospects for eventual manufacturing use of this exciting new technology.

Linked Democracy Cambridge University Press

This book theorizes shadow education as a new component of curriculum, expanding the concept of curriculum to include this type of learning. Curriculum scholars and theorists have largely disregarded shadow education as a valid topic of scholarly attention despite its massive growth worldwide. But shadow education has become a global phenomenon with ever-increasing numbers of student participants; it complements school-based curricula, in many cases going beyond. Thus, Jung and Kim argue that shadow education requires rigorous analysis by curriculum studies scholars. This volume analyzes the state and importance of shadow education in countries around the world: its representative forms and industries (private tutoring institutes, home-visit private tutoring, Internet-based private tutoring, subscribed learning programs, after-school programs), its characteristic

forms in terms of curriculum, and its roles in student learning. It also explores various features of shadow education based on an eight-year ethnographic study in South Korea.

**Advances in Multimedia Information Processing - PCM 2005** Springer Science & Business Media

Damage prognosis is a natural extension of damage detection and structural health monitoring and is forming a growing part of many businesses. This comprehensive volume presents a series of fundamental topics that define the new area of damage prognosis. Bringing together essential information in each of the basic technologies necessary to perform damage prognosis, it also reflects the highly interdisciplinary nature of the industry through the extensive referencing of each of the component disciplines. Taken from lectures given at the Pan American Advanced Studies Institute in Damage Prognosis sponsored by the US National Science Foundation in cooperation with Los Alamos National Laboratories, this book will be essential reading for anyone looking to get to grips with the fundamentals of damage prognosis. Presents the 'ground rules' for Damage Prognosis. Deals with interdisciplinary topics: rotating machines, aerospace structures, automotive components and civil structures. Covers essential technical material: equations, graphs and plots, tables and photographs. Offers additional material from the associated workshop on an active web site.

*Who's who in Finance and Industry* John Wiley & Sons

This is a study of the British state's generation, suppression and manipulation of news to further foreign policy goals during the early Cold War.

Bribing editors, blackballing 'unreliable' journalists, creating instant media experts through provision of carefully edited 'inside information', and exploiting the global media system to plant propaganda--disguised as news--around the world: these were all methods used by the British to try to convince the international public of Soviet deceit and criminality and thus gain support for anti-Soviet policies at home and abroad. Britain's shaky international position heightened the importance of propaganda. The Soviets and Americans were investing heavily in propaganda to win the 'hearts and minds' of the world and substitute for increasingly unthinkable nuclear war. The British exploited and enhanced their media power and propaganda expertise to keep up with the superpowers and preserve their own global influence at a time when British economic, political and military power was sharply declining. This activity directly influenced domestic media relations, as officials used British media to launder foreign-bound propaganda and to create the desired images of British 'public opinion' for foreign audiences. By the early 1950s censorship waned but covert propaganda had become addictive. The endless tension of the Cold War normalized what had previously been abnormal state involvement in the media, and led it to use similar tools against Egyptian nationalists, Irish republicans and British leftists. Much more recently, official manipulation of news about Iraq indicates that a behind-the-scenes examination of state propaganda's earlier days is highly relevant. John Jenks draws heavily on recently declassified archival material for



this book, especially files of the Foreign Office's anti-Communist Information Research Department (IRD) propaganda agency, and the papers of key media organisations, journalists, politicians and officials. Readers will therefore gain a greater understanding of the depth of the state's power with the media at a time when concerns about propaganda and media manipulation are once again at the fore.

### **Applications of Supramolecular Chemistry** Springer

This book details the design and technology of the on-line electric vehicle (OLEV) system and its enabling wireless power-transfer technology, the “shaped magnetic field in resonance” (SMFIR). The text shows how OLEV systems can achieve their three linked important goals: reduction of CO<sub>2</sub> produced by ground transportation; improved energy efficiency of ground transportation; and contribution to the amelioration or prevention of climate change and global warming. SMFIR provides power to the OLEV by wireless transmission from underground cables using an alternating magnetic field and the reader learns how this is done. This cable network will in future be part of any local smart grid for energy supply and use thereby exploiting local and renewable energy generation to further its aims. In addition to the technical details involved with design and realization of a fleet of vehicles combined with extensive subsurface charging infrastructure, practical issues such as those involved with pedestrian safety are considered. Furthermore, the benefits of reductions in harmful emissions without recourse to large banks of batteries are made apparent. Importantly, the use of Professor Suh’s axiomatic design paradigm enables such a complicated

transportation system to be developed at reasonable cost and delivered on time. The book covers both the detailed design and the relevant systems-engineering knowledge and draws on experience gained in the successful implementation of OLEV systems in four Korean cities. The introduction to axiomatic design and the in-depth discussion of system and technology development provided by The On-line Electric Vehicle is instructive to graduate students in electrical, mechanical and transportation engineering and will help engineers and designers to master the efficient, timely and to-cost implementation of large-scale networked systems. Managers responsible for the running of large transportation infrastructure projects and concerned with technology management more generally will also find much to interest them in this book.

**Mathematical Epidemiology** Anchor Lists for 19 include the Mathematical Association of America, and 1955- also the Society for Industrial and Applied Mathematics.

### Wireless Electric Ground Transportation Systems MDPI

The rise in popularity of South Korean entertainment and culture began and is promoted as an official policy of the Korean government to revive the country's economy. This study examines cultural production and consumption, globalization, the West versus Asia, global race consciousness, and changing views of masculinity and femininity.

### *Korean Companies in Global Competition* Springer Science & Business Media

This book is a collection of articles covering the six lecture courses given at the CISM School on this topic in 2008. It features contributions by established international experts and offers a

coherent and comprehensive overview of the state-of-the art research in the field, thus addressing both postgraduate students and researchers in aerospace, mechanical and civil engineering.

### **Molecular Mechanisms of Synaptogenesis** Springer

Systems Metabolic Engineering is changing the way microbial cell factories are designed and optimized for industrial production. Integrating systems biology and biotechnology with new concepts from synthetic biology enables the global analysis and engineering of microorganisms and bioprocesses at super efficiency and versatility otherwise not accessible. Without doubt, systems metabolic engineering is a major driver towards bio-based production of chemicals, materials and fuels from renewables and thus one of the core technologies of global green growth. In this book, Christoph Wittmann and Sang-Yup Lee have assembled the world leaders on systems metabolic engineering and cover the full story – from genomes and networks via discovery and design to industrial implementation practises. This book is a comprehensive resource for students and researchers from academia and industry interested in systems metabolic engineering. It provides us with the fundamentals to targeted engineering of microbial cells for sustainable bio-production and stimulates those who are interested to enter this exiting research field.

*New Trends in Vibration Based Structural Health Monitoring* Springer Science & Business Media

With its comprehensive coverage, this reference introduces readers to the wide topic of resistance switching, providing the knowledge, tools, and methods needed to understand, characterize and

apply resistive switching memories. Starting with those materials that display resistive switching behavior, the book explains the basics of resistive switching as well as switching mechanisms and models. An in-depth discussion of memory reliability is followed by chapters on memory cell structures and architectures, while a section on logic gates rounds off the text. An invaluable self-contained book for materials scientists, electrical engineers and physicists dealing with memory research and development.

[Expanding the Frontiers of Visual Analytics and Visualization](#) Springer Science & Business Media

Thermal Hydraulics of Water-Cooled Nuclear Reactors reviews flow and heat transfer phenomena in nuclear systems and examines the critical contribution of this analysis to nuclear technology development. With a strong focus on system thermal hydraulics (SYS TH), the book provides a detailed, yet approachable, presentation of current approaches to reactor thermal hydraulic analysis, also considering the importance of this discipline for the design and operation of safe and efficient water-cooled and moderated reactors. Part One presents the background to nuclear thermal hydraulics, starting with a historical perspective, defining key terms, and considering thermal hydraulics requirements in nuclear technology. Part Two addresses the principles of thermodynamics and relevant target phenomena in nuclear systems. Next, the book focuses on nuclear thermal hydraulics modeling, covering the key areas of heat transfer and pressure drops, then moving on to an introduction to SYS TH and computational fluid dynamics codes. The final part of the



book reviews the application of thermal hydraulics in nuclear technology, with chapters on V&V and uncertainty in SYS TH codes, the BEPU approach, and applications to new reactor design, plant lifetime extension, and accident analysis. This book is a valuable resource for academics, graduate students, and professionals studying the thermal hydraulic analysis of nuclear power plants and using SYS TH to demonstrate their safety and acceptability. Contains a systematic and comprehensive review of current approaches to the thermal-hydraulic analysis of water-cooled and moderated nuclear reactors Clearly presents the relationship between system level (top-down analysis) and component level phenomenology (bottom-up analysis) Provides a strong focus on nuclear system thermal hydraulic (SYS TH) codes Presents detailed coverage of the applications of thermal-hydraulics to demonstrate the safety and acceptability of nuclear power plants

Korean Popular Culture in Global Context  
Elsevier

This book gathers the Proceedings of the 6th International Conference on Robot Intelligence Technology and Applications (RITA 2018). Reflecting the conference's main theme, "Robotics and Machine Intelligence: Building Blocks for Industry 4.0," it features relevant and current research investigations into various aspects of these building blocks. The areas covered include: Instrumentation and Control, Automation, Autonomous

Systems, Biomechatronics and Rehabilitation Engineering, Intelligent Systems, Machine Learning, Robotics, Sensors and Actuators, and Machine Vision, as well as Signal and Image Processing. A valuable asset, the book offers researchers and practitioners a timely overview of the latest advances in robot intelligence technology and its applications.

**Legacy of Ashes** Springer

This open access book shows the factors linking information flow, social intelligence, rights management and modelling with epistemic democracy, offering licensed linked data along with information about the rights involved. This model of democracy for the web of data brings new challenges for the social organisation of knowledge, collective innovation, and the coordination of actions. Licensed linked data, licensed linguistic linked data, right expression languages, semantic web regulatory models, electronic institutions, artificial socio-cognitive systems are examples of regulatory and institutional design (regulations by design). The web has been massively populated with both data and services, and semantically structured data, the linked data cloud, facilitates and fosters human-machine interaction. Linked data aims to create ecosystems to make it possible to browse, discover, exploit and reuse data sets for applications. Rights Expression Languages semi-automatically regulate the use and reuse of content.

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