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view of that simple!


Dependable Computer Systems Wojciech Zamojski 2011-05-13 Dependability analysis is the recent approach to performance evaluation of contemporary systems which tries to cope with new challenges that are brought with their unprecedented complexity, size and diversity. Especially in case of computer systems and networks such evaluation must be based on multidisciplinary approach to theory, technology, and maintenance of systems which operate in real (and very often unfriendly) environments. As opposed to "classic" reliability which focuses mainly on technical aspects of system functioning, dependability studies investigate the systems as multifaceted and sophisticated amalgamations of technical, information and also human resources. This monograph presents selected new developments in such areas of dependability research as mathematical models, evaluation of software, probabilistic assessment, methodologies, tools, and technologies. Intelligent and soft computing methods help to resolve fundamental problems

of dependability analysis which are caused by the fact that in contemporary computer systems it is often difficult to find a relation between system elements and system events (the relation between reasons and results) and it is even more difficult to define strict mathematical models with "analytical" relationships between such phenomena.

Proceedings of the 9th International Symposium on Superalloy 718 & Derivatives: Energy, Aerospace, and Industrial Applications Eric Ott 2018-05-12 This technical meeting will focus on Alloy 718 and Superalloys in this class relative to alloy and process development, production, product applications, trends and the development of advanced modeling tools. The symposium provides an opportunity for authors to present technical advancements relative to a broad spectrum of areas while assessing their impact on related fields associated with this critical alloy group. There are continuing innovations relative to these alloys as well as novel processing techniques which continue to extend applications in very challenging environments ranging from corrosion resistance in the deep sea to high-stressed space applications.

Bioengineering and Biomedical Signal and Image Processing Ignacio Rojas 2021-10-08 This book constitutes the refereed proceedings of the First

International Conference on Bioengineering and Biomedical Signal and Image Processing, BIOMESIP 2021, held in Meloneras, Gran Canaria, Spain, in July 2021. The 41 full and 5 short papers were carefully reviewed and selected from 121 submissions. The papers are grouped in topical issues on biomedical applications in molecular, structural, and functional imaging; biomedical computing; biomedical signal measurement, acquisition and processing; computerized medical imaging and graphics; disease control and diagnosis; neuroimaging; pattern recognition and machine learning for biosignal data; personalized medicine; and COVID-19.

Proceedings of the 8th International Conference on Sciences of Electronics, Technologies of Information and Telecommunications (SETIT18), Vol. 1 Med Salim Bouhlel 2020 This two-volume book presents an unusually diverse selection of research papers, covering all major topics in the fields of information and communication technologies and related sciences. It provides a wide-angle snapshot of current themes in information and power engineering, pursuing a cross-disciplinary approach to do so. The book gathers revised contributions that were presented at the 2018 International Conference: Sciences of Electronics, Technologies of Information and

Telecommunication (SETIT'18), held on 20-22 December 2018 in Hammamet, Tunisia. This eighth installment of the event attracted a wealth of submissions, and the papers presented here were selected by a committee of experts and underwent additional, painstaking revision. Topics covered include: · Information Processing · Human-Machine Interaction · Computer Science · Telecommunications and Networks · Signal Processing · Electronics · Image and Video This broad-scoped approach is becoming increasingly popular in scientific publishing. Its aim is to encourage scholars and professionals to overcome disciplinary barriers, as demanded by current trends in the industry and in the consumer market, which are rapidly leading toward a convergence of data-driven applications, computation, telecommunication, and energy awareness. Given its coverage, the book will benefit graduate students, researchers and practitioners who need to keep up with the latest technological advances.

Integrated Circuit and System Design: Power and Timing Modeling, Optimization and Simulation José Monteiro 2010-02-18 Welcome to the proceedings of the 19th International Workshop on Power and TimingModeling, OptimizationandSimulation, PATMOS2009.Overtheyears,

PATMOShasevolvedintoanimportantEuropeanevent, whereresearchersfrom both industry and academia discuss and investigate the emerging challenges in future and contemporary applications, design methodologies, and tools required for the development of the upcoming generations of integrated circuits and s- tems. PATMOS 2009 was organized by TU Delft, The Netherlands, with sp- sorship by the NIRICT Design Lab and Cadence Design Systems, and technical co-sponsorshipbytheIEEE.Furtherinformationabouttheworkshopisavailable athttp://ens.ewi.tudelft.nl/patmos09. The technical programof PATMOS 2009 contained state-of-the-arttechnical contributions, three invited keynotes, and a special session on SystemC-AMS Extensions. The technical program focused on timing, performance, and power consumption, as well as architectural aspects with particular emphasis on m- eling, design, characterization, analysis, and optimization in the nanometer era. The Technical Program Committee, with the assistance of additional expert reviewers, selected the 36 papers presented at PATMOS. The papers were - ganized into 7 oral sessions (with a total of 26 papers) and 2 poster sessions (with a total of 10 papers). As is customary for the PATMOS workshops, full papers were required for review,

and a minimum of three reviews were received per manuscript.

Data Science and Analytics Usha Batra 2020-05-28 This two-volume set (CCIS 1229 and CCIS 1230) constitutes the refereed proceedings of the 5th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2019, held in Gurugram, India, in November 2019. The 74 revised full papers presented were carefully reviewed and selected from total 353 submissions. The papers are organized in topical sections on data centric programming; next generation computing; social and web analytics; security in data science analytics; big data analytics.

Good Agricultural Practices for Greenhouse Vegetable Crops 2013 This publication capitalizes on the experience of scientists from the North Africa and Near East countries, in collaboration with experts from around the world, specialized in the different aspects of greenhouse crop production. It provides a comprehensive description and assessment of the greenhouse production practices in use in Mediterranean climate areas that have helped diversify vegetable production and increase productivity. The publication is also meant to be used as a reference and tool for trainers and growers as well as other

actors in the greenhouse vegetables value chain in this region.

WCFS2020 ?ukasz Pi?tek 2021-08-05 This book highlights state-of-the-art research findings on floating developments in both inland and coastal waters with focus on living, recreation and working offshore. It includes six themes: (1) business case and real estate development, (2) spatial planning and architecture, (3) food and energy production, (4) ecological impact and nature-based solutions, (5) governance and social impact and (6) design and engineering of (infra)structures. The book presents key issues addressed when utilizing water space. It gives an overview of findings and discussions from the world's leading experts from the industry, policymakers, entrepreneurs, researchers and identifies new opportunities as well as fosters collaboration on floating projects for a more climate-adaptive, socially inclusive, sustainable and better world.

Communication systems Athol Bruce Carlson 1981

Advanced Bash Scripting Guide Mendel Cooper

Semiconductor-On-Insulator Materials for Nanoelectronics Applications Alexei Nazarov 2011-03-03 "Semiconductor-On-Insulator Materials for NanoElectronics Applications" is devoted to the fast evolving field of modern

nanoelectronics, and more particularly to the physics and technology of nanoelectronic devices built on semiconductor-on-insulator (SemOI) systems. The book contains the achievements in this field from leading companies and universities in Europe, USA, Brazil and Russia. It is articulated around four main topics: 1. New semiconductor-on-insulator materials; 2. Physics of modern SemOI devices; 3. Advanced characterization of SemOI devices; 4. Sensors and MEMS on SOI. "Semiconductor-On-Insulator Materials for NanoElectonics Applications" is useful not only to specialists in nano- and microelectronics but also to students and to the wider audience of readers who are interested in new directions in modern electronics and optoelectronics.

AI and Learning Systems Konstantinos Kyprianidis 2021-02-17 Over the last few years, interest in the industrial applications of AI and learning systems has surged. This book covers the recent developments and provides a broad perspective of the key challenges that characterize the field of Industry 4.0 with a focus on applications of AI. The target audience for this book includes engineers involved in automation system design, operational planning, and decision support. Computer science practitioners and industrial automation platform developers will also benefit from the timely and accurate information

provided in this work. The book is organized into two main sections comprising 12 chapters overall: •Digital Platforms and Learning Systems •Industrial Applications of AI

The Use of Saline Waters for Crop Production J. D. Rhoades 1992 Radiation Dose from Multidetector CT Denis Tack 2012-06-05 Computed tomography (CT) is a powerful technique providing precise and confident diagnoses. The burgeoning use of CT has resulted in an exponential increase in collective radiation dose to the population. Despite investigations supporting the use of lower radiation doses, surveys highlight the lack of proper understanding of CT parameters that affect radiation dose. Dynamic advances in CT technology also make it important to explain the latest dose-saving strategies in an easy-to-comprehend manner. This book aims to review all aspects of the radiation dose from CT and to provide simple rules and tricks for radiologists and radiographers that will assist in the appropriate use of CT technique. The second edition includes a number of new chapters on the most up-to-date strategies and technologies for radiation dose reduction while updating the outstanding contents of the first edition. Vendor perspectives are

included, and an online image gallery will also be available to readers.

Semiconductor Devices, Physics and Technology S. M. Sze 2013

Applied Iterative Methods CHARLES L. BYRNE 2021-09-30 This book is a collection of essays on iterative algorithms and their uses. It focuses on the mathematics of medical image reconstruction, with emphasis on Fourier inversion. The book discusses the problems and algorithms in the context of operators on finite-dimensional Euclidean space.

Handbook of Diesel Engines Klaus Mollenhauer 2010-06-22 This machine is destined to completely revolutionize cylinder diesel engine up through large low speed t- engine engineering and replace everything that exists. stroke diesel engines. An appendix lists the most (From Rudolf Diesel's letter of October 2, 1892 to the important standards and regulations for diesel engines. publisher Julius Springer. ) Further development of diesel engines as economiz- Although Diesel's stated goal has never been fully ing, clean, powerful and convenient drives for road and achievable of course, the diesel engine indeed revolu- nonroad use has proceeded quite dynamically in the tionized drive systems. This handbook documents the last twenty years in particular. In light of limited oil current state of diesel engine engineering and

technol- reserves and the discussion of predicted climate ogy. The impetus to publish a Handbook of Diesel change, development work continues to concentrate Engines grew out of ruminations on Rudolf Diesel's on reducing fuel consumption and utilizing alternative transformation of his idea for a rational heat engine fuels while keeping exhaust as clean as possible as well into reality more than 100 years ago. Once the patent as further increasing diesel engine power density and was filed in 1892 and work on his engine commenced enhancing operating performance.

Schaum's Outline of Basic Electricity Milton Gussow 2007 Sample problems and their solutions accompany explanations of aspects of electricity, such as electric circuits, alternating current, and electromagnetism.

Noise Reduction Techniques in Electronic Systems Henry W. Ott 1988-03-23 This updated and expanded version of the very successful first edition offers new chapters on controlling the emission from electronic systems, especially digital systems, and on low-cost techniques for providing electromagnetic compatibility (EMC) for consumer products sold in a competitive market. There is also a new chapter on the susceptibility of electronic systems to electrostatic discharge. There is more material on FCC regulations, digital circuit noise and

layout, and digital circuit radiation. Virtually all the material in the first edition has been retained. Contains a new appendix on FCC EMC test procedures.

Electric and Magnetic Fields R. Belmans 1995-05-31

Advanced Intelligent Systems for Sustainable Development (AI2SD'2018) Mostafa Ezziyyani 2019-02-04 This book gathers papers presented at the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD-2018), which was held in Tangiers, Morocco on 12–14 July 2018. In addition to the latest research in the field of energy, it offers new solutions, tools and effective techniques, and provides essential information on smart grids, renewable and economical energy. Further, it addresses modeling, storage management and decision support in the field of energy, offering a valuable guide for researchers, professionals and all those who are interested in the development of advanced intelligent systems in the energy sector.

Proceedings of the 12th International Conference on Measurement and Quality Control - Cyber Physical Issue Vidosav D. Majstorovic 2019-05-03 This book gathers the proceedings of the 12th International Conference on Measurement and Quality Control – Cyber Physical Issues (IMEKO TC 14

2019), held in Belgrade, Serbia, on 4–7 June 2019. The event marks the latest in a series of high-level conferences that bring together experts from academia and industry to exchange knowledge, ideas, experiences, research findings, and information in the field of measurement of geometrical quantities. The book addresses a wide range of topics, including: 3D measurement of GPS characteristics, measurement of gears and threads, measurement of roughness, micro- and nano-metrology, laser metrology for precision measurements, cyber physical metrology, optical measurement techniques, industrial computed tomography, multisensor techniques, intelligent measurement systems, evaluating measurement uncertainty, dimensional management in industry, product quality assurance methods, and big data analytics. By providing updates on key issues and highlighting recent advances in measurement and quality control, the book supports the transfer of vital knowledge to the next generation of academics and practitioners. Design Approaches for Solar Industrial Process Heat Systems Charles F. Kutscher 1982

Transients in Electrical Systems: Analysis, Recognition, and Mitigation J. C. Das 2010-05-06 Detect and Mitigate Transients in Electrical Systems This

practical guide explains how to identify the origin of disturbances in electrical systems and analyze them for effective mitigation and control. Transients in Electrical Systems considers all transient frequencies, ranging from 0.1 Hz to 50 MHz, and discusses transmission line and cable modeling as well as frequency dependent behavior. Results of EMTP simulations, solved examples, and detailed equations are included in this comprehensive resource. Transients in Electrical Systems covers: Transients in lumped circuits Control systems Lightning strokes, shielding, and backflashovers Transients of shunt capacitor banks Switching transients and temporary overvoltages Current interruption in AC circuits Symmetrical and unsymmetrical short-circuit currents Transient behavior of synchronous generators, induction and synchronous motors, and transformers Power electronic equipment Flicker, bus, transfer, and torsional vibrations Insulation coordination Gas insulated substations Transients in low-voltage and grounding systems Surge arresters DC systems, short-circuits, distributions, and HVDC Smart grids and wind power generation

Introduction to Nuclear Engineering John R. Lamarsh 2011-03-04 The text is designed for junior and senior level Nuclear Engineering students. The third

edition of this highly respected text offers the most current and complete introduction to nuclear engineering available. Introduction to Nuclear Engineering has been thoroughly updated with new information on French, Russian, and Japanese nuclear reactors. All units have been revised to reflect current standards. In addition to the numerous end-of-chapter problems, computer exercises have been added.

Discrete-Signal Analysis and Design William E Sabin 2008-02-04 "This book provides an introduction to discrete-time and discrete-frequency signal processing, which is rapidly becoming an important, modern way to design and analyze electronics projects of all kinds. It presents discrete-signal processing concepts from the perspective of an experienced electronics or radio engineer, which is especially meaningful for practicing engineers, technicians, and students." -- Publisher's description.

Reverse Osmosis Technical Manual Burns and Roe Industrial Services Corporation 1979

Reverse Osmosis and Nanofiltration American Water Works Association 1998 This book explains the processes of membrane technologies applications, used in the treatment of water sources and by medical professionals for kidney

dialysis, and is a helpful research tool for engineers, scientists, administrators, and educators seeking an introduction to these processes. Covers history and theory, design and equipment, regulations, and more.

Transmission Line Design Manual Holland H. Farr 1980

New Trends in Medical and Service Robots Doina Pisla 2013-09-06 This book contains mainly the selected papers of the First International Workshop on Medical and Service Robots, held in Cluj-Napoca, Romania, in 2012. The high quality of the scientific contributions is the result of a rigorous selection and improvement based on the participants' exchange of opinions and extensive peer-review. This process has led to the publishing of the present collection of 16 independent valuable contributions and points of view and not as standard symposium or conference proceedings. The addressed issues are: Computational Kinematics, Mechanism Design, Linkages and Manipulators, Mechanisms for Biomechanics, Mechanics of Robots, Control Issues for Mechanical Systems, Novel Designs, Teaching Methods, all of these being concentrated around robotic systems for medical and service applications. The results are of interest to researchers and professional practitioners as well as to Ph.D. students in the field of mechanical and electrical engineering. This

volume marks the start of a subseries entitled "New Trends in Medical and Service Robots" within the Machine and Mechanism Science Series, presenting recent trends, research results and new challenges in the field of medical and service robotics.

Nondestructive Characterization of Materials IV J.F. Bussière 2013-11-11 There is a great deal of interest in extending nondestructive technologies beyond the location and identification of cracks and voids. Specifically there is growing interest in the application of nondestructive evaluation (NOEI to the measurement of physical and mechanical properties of materials. The measurement of materials properties is often referred to as materials characterization; thus nondestructive techniques applied to characterization become nondestructive characterization (NDCI. There are a number of meetings, proceedings and journals focused upon nondestructive technologies and the detection and identification of cracks and voids. However, the series of symposia, of which these proceedings represent the fourth, are the only meetings uniquely focused upon nondestructive characterization. Moreover, these symposia are especially concerned with stimulating communication between the materials, mechanical and manufacturing engineer and the NDE

technology oriented engineer and scientist. These symposia recognize that it is the welding of these areas of expertise that is necessary for practical development and application of NDC technology to measurements of components for in service life time and sensor technology for intelligent processing of materials. These proceedings are from the fourth international symposia and are edited by c.o. Ruud, J. F. Bussiere and R.E. Green, Jr. . The dates, places, etc of the symposia held to date area as follows: Symposia on Nondestructive Methods for TITLE: Material Property Determination DATES: April 6-8, 1983 PLACE: Hershey, PA, USA CHAIRPERSONS: C.O. Ruud and R.E. Green, Jr.

Glass Machines Wilhelm Giegerich 1969

Proceedings of the 5th Brazilian Technology Symposium Yuzo Iano 2020-12-15 This book presents the proceedings of the 5th Edition of the Brazilian Technology Symposium (BTSym). This event brings together researchers, students and professionals from the industrial and academic sectors, seeking to create and/or strengthen links between issues of joint interest, thus promoting technology and innovation at nationwide level. The BTSym facilitates the smart integration of traditional and renewable power generation

systems, distributed generation, energy storage, transmission, distribution and demand management. The areas of knowledge covered by the event are Smart Designs, Sustainability, Inclusion, Future Technologies, IoT, Architecture and Urbanism, Computer Science, Information Science, Industrial Design, Aerospace Engineering, Agricultural Engineering, Biomedical Engineering, Civil Engineering, Control and Automation Engineering, Production Engineering, Electrical Engineering, Mechanical Engineering, Naval and Oceanic Engineering, Nuclear Engineering, Chemical Engineering, Probability and Statistics.

Automotive Engineering David Crolla 2009-08-13 A one-stop reference for automotive and other engineers involved in vehicle and automotive technologies. The book provides essential information on each of the main automotive systems (engines; powertrain and chassis; bodies; electrical systems) plus critical external factors that engineers need to engage with, such as hybrid technologies, vehicle efficiency, emissions control and performance optimization. * Definitive content by the leading authors in the field * A thorough resource, providing all the essential material needed by automotive and mechanical engineers on a day-to-day basis * Fundamentals,

key techniques, engineering best practice and know-how together in one quick-reference sourcebook * Focuses on what engineers need to know: engineering fundaments, key associated technologies, environmental and efficiency engineering, and sustainability, as well as market-driven requirements such as reliability, safety, and comfort * Accompanied by multi-body dynamics and tire dynamic modeling software

Medical Imaging Physics William R. Hendee 2003-04-14 This comprehensive publication covers all aspects of image formation in modern medical imaging modalities, from radiography, fluoroscopy, and computed tomography, to magnetic resonance imaging and ultrasound. It addresses the techniques and instrumentation used in the rapidly changing field of medical imaging. Now in its fourth edition, this text provides the reader with the tools necessary to be comfortable with the physical principles, equipment, and procedures used in diagnostic imaging, as well as appreciate the capabilities and limitations of the technologies.

VDI Heat Atlas VDI Gesellschaft 2010-07-21 For more than 50 years, the Springer VDI Heat Atlas has been an indispensable working means for engineers dealing with questions of heat transfer. Featuring 50% more

content, this new edition covers most fields of heat transfer in industrial and engineering applications. It presents the interrelationships between basic scientific methods, experimental techniques, model-based analysis and their transfer to technical applications.

Spreading Resistance Symposium James R. Ehrstein 1974

Industrializing Additive Manufacturing - Proceedings of Additive Manufacturing in Products and Applications - AMPA2017 Mirko Meboldt 2017-09-05 These proceedings exchange ideas and knowledge among engineers, designers and managers on how to support real-world value chains by developing additive manufactured series products. The papers from the conference show a holistic, multidisciplinary view.

Non-destructive Testing and Repair of Pipelines Evgeny N. Barkanov 2017-07-27 This book describes efficient and safe repair operations for pipelines, and develops new methods for the detection and repair of volumetric surface defects in transmission pipelines. It also addresses the physics, mechanics, and applications of advanced materials used for composite repair of corroded pipelines. Presenting results obtained in the European Commission's INNOPIPES FRAMEWORK 7 programme, it develops long-range ultrasonic

and phased array technologies for pipeline diagnostics, and explores their interactions with discontinuities and directional properties of ultrasonic antenna array. The book subsequently shares the results of non-destructive testing for different types of materials applications and advanced composite repair systems, and characterizes the mechanical properties by means of fracture methods and non-destructive techniques. In turn, the book assesses the currently available technologies for reinforcement of pipelines, drawing on the experience gai ned by project partners, and evaluates the recovery of the carrying capacity of pipeline sections with local corrosion damage by means of analytical and numerical procedures. It develops an optimization method based on the planning of experiments and surface techniques for advanced composite repair systems, before validating the numerical models developed and experimentally gauging the effectiveness of composite repair with the help of full-scale hydraulic tests.

Engineering Analysis With NX Advanced Simulation P. Goncharov 2014-12-02 If you're interested in engineering analysis applications for various product development tasks, then you need to add this technical guide to your bookshelf. Written by a team of engineers at Siemens PLM Software, it

provides deep insights about finite element analysis and will help anyone interested in computer-aided engineering. NX Advanced Simulation is a feature-rich system for multi-physics calculations that can be used to study strength and dynamics, aerodynamic performance, internal and external flow of liquids and gases, cooling systems, experimental engineering, and more. Whether you're just starting out as an engineer or are an experienced professional, you'll be delighted by the insights and practical knowledge in Engineering Analysis with NX Advanced Simulation.