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INIS Atomindex Springer Science & Business Media

A systematic and practical research guide to coding verbal data in all its forms.

Coral Reef Restoration Handbook **CSU Open Press**

Introduction to gauge/string duality and its applications to quark-gluon plasma for researchers in string theory and quantum field theory.

NUREG/CR. Sinauer Associates Incorporated

Reviews all the basic types of surface emitting semiconductor lasers, including vertical cavity, etched-mirror integrated beam deflectors and grating out-coupled devices. The book also addresses such topics as edge-emitting arrays, thermal management and coherence.

System Synthesis with VHDL Organisation for Economic Co-operation and Development ; [Washington, D.C. : sold by OECD Publications Center]

Electrical units - Measuring devices - Direct-current circuit - Resistors - Cells and batteries - Magnetism - Inductance - Capacitance - Phase - Transformers - Semiconductors - Diodes - Amplifiers - Oscillators - Data transmission.

Board Briefing for IT Governance, 2nd Edition Cambridge University Press

The exercises in this unique book allow students to use spreadsheet programs such as Microsoftr Excel to create working population models. The book contains basic spreadsheet exercises that explicate the concepts of statistical distributions, hypothesis testing and power, sampling techniques, and Leslie matrices. It contains exercises for modeling such crucial factors as population growth, life histories, reproductive success, demographic stochasticity, Hardy-Weinberg equilibrium, metapopulation dynamics, predator-prey interactions (Lotka-Volterra models), and many others. Building models using these exercises gives students "hands-on" information about what parameters are important in each model, how different parameters relate to each other, and how changing the parameters affects outcomes. The "mystery" of the mathematics dissolves as the spreadsheets produce tangible graphic results. Each exercise grew from hands-on use in the authors' classrooms. Each begins with a list of objectives, background information that includes standard mathematical formulae, and annotated step-by-step instructions for using this information to create a working model. Students then examine how changing the parameters affects model outcomes and, through a set of guided questions, are challenged to develop their models further. In the process, they become proficient with many of the functions available on spreadsheet programs and learn to write and use complex but useful macros. Spreadsheet Exercises in Ecology and Evolution can be used independently as the basis of a course in quantitative ecology and its applications or as an invaluable supplement to undergraduate textbooks in ecology, population biology, evolution, and population genetics.

Electronic Design Pebble

Transparent conducting materials are key elements in a wide variety of current technologies including flat panel displays, photovoltaics, organic, low-e windows and electrochromics. The needs for new and improved materials is pressing, because the existing materials do not have the performance levels to meet the ever- increasing demand, and because some of the current materials used may not be viable in the future. In addition, the field of transparent conductors has gone through dramatic changes in the last 5-7 years with new materials being identified, new applications and new people in the field. “Handbook of Transparent Conductors” presents transparent conductors in a historical perspective, provides current applications as well as insights into the future of the devices. It is a comprehensive reference, and represents the most current resource on the subject.

Teach Yourself Electricity and Electronics John Wiley & Sons

"... this book is the first to describe, in detail, the art and science of coral reef restoration. It is to be hoped that the information that can be gleaned within the pages of this book will set a path towards continued preservation of this valuable underwater treasure to be used, appreciated, and experienced for future generations." -- Senator Bob Graham (retired), Miami Lakes, Florida, from the Foreword Most of what we know about the rehabilitation of coral reef systems stems from efforts to repair reefs injured by vessels that have run aground. To date, however, there is a paucity of published literature regarding the efficacy and/or failure of coral reef restoration techniques. While most of the literature that is available comes from meeting abstracts, workshops and technical memoranda, these papers and reports have forged a scientific framework that can help guide future efforts. The Coral Reef Restoration Handbook is the first published volume devoted to the science of coral reef restoration. It offers a scientific, conceptual framework along with practical strategies for reef assessment and restoration. Contributors from a variety of disciplines discuss engineering, geological, biological, and socioeconomic factors to create a text that is designed to guide scientists and resource managers in the decision-making process from initial assessment of the injury through conceptual restoration design, implementation, and monitoring. An excellent selection of

relevant case studies is utilized to illustrate concepts and challenges inherent in the process of restoration. This volume gives reef scientists and managers the opportunity to glean significant information from previous efforts. It provides them with the opportunity to build on the lessons learned and develop successful restoration efforts into the future.

Earth Day Academic Press

The materials in the book and on the accompanying disc are not solely developed with only the researcher and professional in mind, but also with consideration for the student: most of this material has been class-tested by the authors. The book is packed with some 100 computer graphics to illustrate the material, and the CD-ROM contains full-colour animations tied directly to the subject matter of the book itself. The cross-platform CD also contains the program ENDO, which enables users to create their own 2-D imagery with X-Windows. Maple scripts are provided to allow readers to work directly with the code from which the graphics in the book were taken.

Cast Iron Technology U of Minnesota Press

This book focuses on the different representations and cryptographic properties of Booleans functions, presents constructions of Boolean functions with some good cryptographic properties. More specifically, Walsh spectrum description of the traditional cryptographic properties of Boolean functions, including linear structure, propagation criterion, nonlinearity, and correlation immunity are presented. Constructions of symmetric Boolean functions and of Boolean permutations with good cryptographic properties are specifically studied. This book is not meant to be comprehensive, but with its own focus on some original research of the authors in the past. To be self content, some basic concepts and properties are introduced. This book can serve as a reference for cryptographic algorithm designers, particularly the designers of stream ciphers and of block ciphers, and for academics with interest in the cryptographic properties of Boolean functions.

An Anthology of Classic Australian Folklore Morgan & Claypool Publishers

One of the greatest challenges for nuclear energy is how to properly manage the highly radioactive waste generated during irradiation in nuclear reactors. Accelerator Driven Systems (ADSs) may offer new prospects and advantages for the transmutation of such high level nuclear waste. ADS or accelerator driven transmutation of waste (ATW) consists of a high power proton accelerator, a heavy metal spallation target that produces neutrons when bombarded by the high power beam, and a sub-critical core that is neutronically coupled to the spallation target. This publication provides a comprehensive state of the art of the ADS technology by representing the different ADS concepts proposed worldwide in the last 15 years, as well as the related R&D activities and demonstration initiatives carried out at national international level.

Handbook of Transparent Conductors National Academies Press

Living on a damaged planet challenges who we are and where we live. This timely anthology calls on twenty eminent humanists and scientists to revitalize curiosity, observation, and transdisciplinary conversation about life on earth. As human-induced environmental change threatens multispecies livability, Arts of Living on a Damaged Planet puts forward a bold proposal: entangled histories, situated narratives, and thick descriptions offer urgent “arts of living.” Included are essays by scholars in anthropology, ecology, science studies, art, literature, and bioinformatics who posit critical and creative tools for collaborative survival in a more-than-human Anthropocene. The essays are organized around two key figures that also serve as the publication’s two openings: Ghosts, or landscapes haunted by the violences of modernity; and Monsters, or interspecies and intraspecies sociality. Ghosts and Monsters are tentacular, windy, and arboreal arts that invite readers to encounter ants, lichen, rocks, electrons, flying foxes, salmon, chestnut trees, mud volcanoes, border zones, graves, radioactive waste—in short, the wonders and terrors of an unintended epoch. Contributors: Karen Barad, U of California, Santa Cruz; Kate Brown, U of Maryland, Baltimore; Carla Freccero, U of California, Santa Cruz; Peter Funch, Aarhus U; Scott F. Gilbert, Swarthmore College; Deborah M. Gordon, Stanford U; Donna J. Haraway, U of California, Santa Cruz; Andreas Hejnol, U of Bergen, Norway; Ursula K. Le Guin; Marianne Elisabeth Lien, U of Oslo; Andrew Mathews, U of California, Santa Cruz; Margaret McFall-Ngai, U of Hawaii, Manoa; Ingrid M. Parker, U of California, Santa Cruz; Mary Louise Pratt, NYU; Anne Pringle, U of Wisconsin, Madison; Deborah Bird Rose, U of New South Wales, Sydney; Dorion Sagan; Lesley Stern, U of California, San Diego; Jens-Christian Svenning, Aarhus U.

Electric and Magnetic Fields Springer Science & Business Media

This book contains the edited versions of the papers presented at the Second International Workshop on Electric and Magnetic Fields held at the Katholieke Universiteit van Leuven (Belgium) in May 1994. This Workshop deals with numerical solutions of electromagnetic problems in real life applications. The topics include coupled problems (thermal, mechanical, electric circuits), CAD & CAM applications, 3D eddy current and high frequency problems, optimisation and application oriented numerical problems. This workshop was organised jointly by the AIM (Association of Engineers graduated from de Montefiore Electrical Institute) together with the Departments of Electrical Engineering of the Katholieke Universiteit van Leuven (Prof. R. Belmans), the University of Gent (Prof. J. Melkebbek) and the University of Liege (Prof. W. Legros). These laboratories are working together in the framework of the Pole d'Attraction Interuniversitaire - Inter-University Attractie-Pole 51 - on electromagnetic systems led by the University of Liege and the research work they perform covers most of the topics of the Workshop. One of the principal aims of this Workshop was to provide a bridge between the electromagnetic device designers, mainly industrialists, and the electromagnetic field computation developers. Therefore, this book contains a continuous spectrum of papers from application of electromagnetic models in industrial design to presentation of new theoretical developments.

Assessing Health Outcomes Among Veterans of Project SHAD (Shipboard Hazard and Defense) CRC Press

Totally updated for 2011, here's the ultimate study guide for the CISSP exam Considered the most desired certification for IT security professionals, the Certified Information Systems Security Professional designation is also a career-booster. This comprehensive study guide covers every aspect of the 2011 exam and the latest revision of the CISSP body of knowledge. It offers advice on how to pass each section of the exam and features expanded coverage of biometrics, auditing and accountability, software security testing, and other key topics. Included is a CD with two full-length, 250-question sample exams to test your progress. CISSP certification identifies the ultimate IT security professional; this complete study guide is fully updated to cover all the objectives of the 2011 CISSP exam Provides in-depth knowledge of access control, application development security, business continuity and disaster recovery planning, cryptography, Information Security governance and risk management, operations security, physical (environmental) security, security architecture and design, and telecommunications and network security Also covers legal and regulatory investigation and compliance Includes two practice exams and challenging review questions on the CD Professionals seeking the CISSP certification will boost their chances of success with CISSP: Certified Information Systems Security Professional Study Guide, 5th Edition.

Electrical Circuits in Biomedical Engineering Springer Science & Business Media

Grid-Scale Energy Storage Systems and Applications provides a timely introduction to state-of-the-art technologies and important demonstration projects in this rapidly

developing field. Written with a view to real-world applications, the authors describe storage technologies and then cover operation and control, system integration and battery management, and other topics important in the design of these storage systems. The rapidly-developing area of electrochemical energy storage technology and its implementation in the power grid is covered in particular detail. Examples of Chinese pilot projects in new energy grids and micro grips are also included. Drawing on significant Chinese results in this area, but also including data from abroad, this will be a valuable reference on the development of grid-scale energy storage for engineers and scientists in power and energy transmission and researchers in academia. Addresses not only the available energy storage technologies, but also topics significant for storage system designers, such as technology management, operation and control, system integration and economic assessment Draws on the wealth of Chinese research into energy storage and describes important Chinese energy storage demonstration projects Provides practical examples of the application of energy storage technologies that can be used by engineers as references when designing new systems

Status of Accelerator Driven Systems Research and Technology Development Penguin

Between 1963 and 1969, the U.S. military carried out a series of tests, termed Project SHAD (Shipboard Hazard and Defense), to evaluate the vulnerabilities of U.S. Navy ships to chemical and biological warfare agents. These tests involved use of active chemical and biological agents, stimulants, tracers, and decontaminants. Approximately 5,900 military personnel, primarily from the Navy and Marine Corps, are reported to have been included in Project SHAD testing. In the 1990s some veterans who participated in the SHAD tests expressed concerns to the Department of Veterans Affairs (VA) that they were experiencing health problems that might be the result of exposures in the testing. These concerns led to a 2002 request from VA to the Institute of Medicine (IOM) to carry out an epidemiological study of the health of SHAD veterans and a comparison population of veterans who had served on similar ships or in similar units during the same time period. In response to continuing concerns, Congress in 2010 requested an additional IOM study. This second study expands on the previous IOM work by making use of additional years of follow up and some analysis of diagnostic data from Medicare and the VA health care system.

AWS A5.4/A5.4M:2012 (R2022), Specification for Stainless Steel Electrodes for Shielded Metal Arc Welding Springer Science & Business Media

The book presents a comprehensive discussion on software quality issues and software quality assurance (SQA) principles and practices, and lays special emphasis on implementing and managing SQA. Primarily designed to serve three audiences; universities and college students, vocational training participants, and software engineers and software development managers, the book may be applicable to all personnel engaged in a software projects Features: A broad view of SQA. The book delves into SQA issues, going beyond the classic boundaries of custom-made software development to also cover in-house software development, subcontractors, and readymade software. An up-to-date wide-range coverage of SQA and SQA related topics. Providing comprehensive coverage on multifarious SQA subjects, including topics, hardly explored till in SQA texts. A systematic presentation of the SQA function and its tasks: establishing the SQA processes, planning, coordinating, follow-up, review and evaluation of SQA processes. Focus on SQA implementation issues. Specialized chapter sections, examples, implementation tips, and topics for discussion. Pedagogical support: Each chapter includes a real-life mini case study, examples, a summary, selected bibliography, review questions and topics for discussion. The book is also supported by an Instructor's Guide.

Safe Medical Devices Act of 1990 Atlantica Séguier Frontières

The purpose of this book is to get a practical understanding of the most common processing techniques in earthquake seismology. The book deals with manual methods and computer assisted methods. Each topic will be introduced with the basic theory followed by practical examples and exercises. There are manual exercises entirely based on the printed material of the book, as well as computer exercises based on public domain software. Most exercises are computer based. The software used, as well as all test data are available from http://extras.springer.com. This book is intended for everyone processing earthquake data, both in the observatory routine and in connection with research. Using the exercises, the book can also be used as a basis for university courses in earthquake processing. Since the main emphasis is on processing, the theory will only be dealt with to the extent needed to understand the processing steps, however references will be given to where more extensive explanations can be found. Includes: • Exercises • Test data • Public domain software (SEISAN) available from http://extras.springer.com

Coding Streams of Language IAEA Tecdoc

Cast Iron Technology presents a critical review of the nature of cast irons. It discusses the types of cast iron and the general purpose of cast irons. It also presents the history of the iron founding industry. Some of the topics covered in the book are the description of liquid metal state; preparation of liquid metal; process of melting; description of cupola melting and electric melting methods; control of composition of liquid metal during preparation; description of primary cast iron solidification structures; and thermal analysis of metals to determine its quality. Solidification science and the fundamentals of heat treatment are also discussed. An in-depth analysis of the hot quenching techniques is provided. The graphitization potential of liquid iron is well presented. A chapter is devoted to microstructural features of cast iron. The book can provide useful information to iron smiths, welders, students, and researchers.

Surface Emitting Semiconductor Lasers and Arrays Butterworth-Heinemann

Embedded systems are usually composed of several interacting components such as custom or application specific processors, ASICs, memory blocks, and the associated communication infrastructure. The development of tools to support the design of such systems requires a further step from high-level synthesis towards a higher abstraction level. The lack of design tools accepting a system-level specification of a complete system, which may include both hardware and software components, is one of the major bottlenecks in the design of embedded systems. Thus, more and more research efforts have been spent on issues related to system-level synthesis. This book addresses the two most active research areas of design automation today: high-level synthesis and system-level synthesis. In particular, a transformational approach to synthesis from VHDL specifications is described. System Synthesis with VHDL provides a coherent view of system synthesis which includes the high-level and the system-

level synthesis tasks. VHDL is used as a specification language and several issues concerning the use of VHDL for high-level and system-level synthesis are discussed. These include aspects from the compilation of VHDL into an internal design representation to the synthesis of systems specified as interacting VHDL processes. The book emphasizes the use of a transformational approach to system synthesis. A Petri net based design representation is rigorously defined and used throughout the book as a basic vehicle for illustration of transformations and other design concepts. Iterative improvement heuristics, such as tabu search, simulated annealing and genetic algorithms, are discussed and illustrated as strategies which are used to guide the optimization process in a transformation-based design environment. Advanced topics, including hardware/software partitioning, test synthesis and low power synthesis are discussed from the perspective of a transformational approach to system synthesis. System Synthesis with VHDL can be used for advanced undergraduate or graduate courses in the area of design automation and, more specifically, of high-level and system-level synthesis. At the same time the book is intended for CAD developers and researchers as well as industrial designers of digital systems who are interested in new algorithms and techniques supporting modern design tools and methodologies.

High Voltage Direct Current Transmission John Wiley & Sons

Lonely because he is the only mouse in the church, Arthur asks all the town mice to join him. Unfortunately the congregation aren't so welcoming. But all is not lost when a robber tries to steal the church candlesticks, the mice foil his plans and win back their home.