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CASSANDRA ESTES

Energy Flash CRC Press

This book presents recent advances in the integration and the optimization of product design and manufacturing systems. The book is divided into 3 chapters corresponding to the following three main topics : - optimization of product design process (mechanical design process, mass customization, modeling the product representation, computer support for engineering design, support systems for tolerancing, simulation and optimization tools for structures and for mechanisms and robots), -optimization of manufacturing systems (multi-criteria optimization and fuzzy volumes, tooth path generation, machine-tools behavior, surface integrity and precision, process simulation), - methodological aspects of integrated design and manufacturing (solid modeling, collaborative tools and knowledge formalization, integrating product and process design and innovation, robust and reliable design, multi-agent approach in VR environment). The present book is of interest to engineers, researchers, academic staff, and postgraduate students interested in integrated design and manufacturing in mechanical engineering.

Quantum Computing World Scientific Publishing Company
Crystallography may be described as the science of the structure of materials, using this word in its widest sense, and its ramifications are apparent over a broad front of current scientific endeavor. It is not surprising, therefore, to find that most universities offer some aspects of crystallography in their undergraduate courses in the physical sciences. It is the principal aim of this book to present an introduction to structure

determination by X-ray crystal lography that is appropriate mainly to both final-year undergraduate studies in crystallography, chemistry, and chemical physics, and introductory post graduate work in this area of crystallography. We believe that the book will be of interest in other disciplines, such as physics, metallurgy, biochemistry, and geology, where crystallography has an important part to play. In the space of one book, it is not possible either to cover all aspects of crystallography or to treat all the subject matter completely rigorously. In particular, certain mathematical results are assumed in order that their applications may be discussed. At the end of each chapter, a short bibliography is given, which may be used to extend the scope of the treatment given here. In addition, reference is made in the text to specific sources of information. We have chosen not to discuss experimental methods extensively, as we consider that this aspect of crystallography is best learned through practical experience, but an attempt has been made to simulate the interpretive side of experimental crystallography in both examples and exercises.

Discrete Mathematics for Computer Science Springer Science & Business Media

Covers several research fields dealing with transport. This work covers three main topics including road traffic, granular matter, and biological transport. It considers different points of views including modelling, simulations, experiments, and phenomenological observations.

Diesel-Engine Management John Wiley & Sons

"The bones recovered from the middens of the northeastern Pacific shorelines have important stories to tell biologists, marine mammalogists, and those concerned with marine conservation.

This volume unearths a wealth of information about the historical ecology of seals, sea lions, and sea otters in the North Pacific that spans thousands of years. It provides fascinating insights into how the world once looked, and how it may one day look again as seals, sea lions, and sea otters reclaim and recolonize their former haunts."—Andrew Trites, Director, Marine Mammal Research Unit, University of British Columbia "Braje and Rick have assembled a compelling set of case studies on the long-term and complex interactions between people, marine mammals, and environments in the Northeast Pacific. The promise of zooarchaeology as historical science is on full display, as researchers use geochemistry, aDNA, morphometrics, and traditional analytic methods to address questions of utmost importance to the long-term health of coastal ecosystems. If this book doesn't convince conservation biology about the need to take the long view of animal histories and ecosystems into account in developing conservation management plans, I'm not sure what will."—Virginia L. Butler, Department of Anthropology, Portland State University

A Hole in the Bottom of the Sea Cambridge University Press

Adaptive Signal Models: Theory, Algorithms and Audio Applications presents methods for deriving mathematical models of natural signals. The introduction covers the fundamentals of analysis-synthesis systems and signal representations. Some of the topics in the introduction include perfect and near-perfect reconstruction, the distinction between parametric and nonparametric methods, the role of compaction in signal modeling, basic and overcomplete signal expansions, and time-frequency resolution issues. These topics arise throughout the book as do a number of other topics such as filter banks and

multiresolution. The second chapter gives a detailed development of the sinusoidal model as a parametric extension of the short-time Fourier transform. This leads to multiresolution sinusoidal modeling techniques in Chapter Three, where wavelet-like approaches are merged with the sinusoidal model to yield improved models. In Chapter Four, the analysis-synthesis residual is considered; for realistic synthesis, the residual must be separately modeled after coherent components (such as sinusoids) are removed. The residual modeling approach is based on psychoacoustically motivated nonuniform filter banks. Chapter Five deals with pitch-synchronous versions of both the wavelet and the Fourier transform; these allow for compact models of pseudo-periodic signals. Chapter Six discusses recent algorithms for deriving signal representations based on time-frequency atoms; primarily, the matching pursuit algorithm is reviewed and extended. The signal models discussed in the book are compact, adaptive, parametric, time-frequency representations that are useful for analysis, coding, modification, and synthesis of natural signals such as audio. The models are all interpreted as methods for decomposing a signal in terms of fundamental time-frequency atoms; these interpretations, as well as the adaptive and parametric natures of the models, serve to link the various methods dealt with in the text. Adaptive Signal Models: Theory, Algorithms and Audio Applications serves as an excellent reference for researchers of signal processing and may be used as a text for advanced courses on the topic.

Handbook of Particle Detection and Imaging Univ of California Press

This manual provides the American Psychiatric Association's guidelines for the treatment of patients with major depressive disorder. It is divided into three sections, covering treatment recommendations; background information and review of available evidence; and future research needs. It seeks to summarize the specific forms of somatic, psychotherapeutic, psychosocial and educational treatments that have been developed to deal with major depressive disorder.

Barkley Deficits in Executive Functioning Scale (BDEFS) punctum books

In this book, the author convinces that Sir Arthur Stanley Eddington had things a little bit wrong, as least as far as physics is concerned. He explores the theory of groups and Lie algebras

and their representations to use group representations as labor-saving tools.

Advances in Communication and Computational Technology Princeton University Press

This book presents key concepts, information and principles that should underlie the practice of adult education in African contexts. It assumes that adult educators should have a historical perspective on the current educational context, understand how the colonial experience has impacted on indigenous traditions and be aware of the philosophical underpinnings of adult education activities. The chapters introduce the foundations and history of adult education in Africa; philosophy and adult education; socio-cultural, political and economic environments; opportunities and access for adult learners; gender and development in adult education; adult education as a developing profession; information and communication technology; globalization and adult education; and policies and structures of lifelong learning

Transport Theory Pearson South Africa

Ecstasy did for house music what LSD did for psychedelic rock. Now, in *Energy Flash*, journalist Simon Reynolds offers a revved-up and passionate inside chronicle of how MDMA ("ecstasy") and MIDI (the basis for electronica) together spawned the unique rave culture of the 1990s. England, Germany, and Holland began tinkering with imported Detroit techno and Chicago house music in the late 1980s, and when ecstasy was added to the mix in British clubs, a new music subculture was born. A longtime writer on the music beat, Reynolds started watching—and partaking in—the rave scene early on, observing firsthand ecstasy's sense-heightening and serotonin-surgingly effects on the music and the scene. In telling the story, Reynolds goes way beyond straight music history, mixing social history, interviews with participants and scene-makers, and his own analysis of the sounds with the names of key places, tracks, groups, scenes, and artists. He delves deep into the panoply of rave-worthy drugs and proper rave attitude and etiquette, exposing a nuanced musical phenomenon. Read on, and learn why nitrous oxide is called "hippy crack."

Pink Noises Wiley

The book serves as a first introduction to computer programming of scientific applications, using the high-level Python language.

The exposition is example and problem-oriented, where the applications are taken from mathematics, numerical calculus, statistics, physics, biology and finance. The book teaches "Matlab-style" and procedural programming as well as object-oriented programming. High school mathematics is a required background and it is advantageous to study classical and numerical one-variable calculus in parallel with reading this book. Besides learning how to program computers, the reader will also learn how to solve mathematical problems, arising in various branches of science and engineering, with the aid of numerical methods and programming. By blending programming, mathematics and scientific applications, the book lays a solid foundation for practicing computational science. From the reviews: Langtangen ... does an excellent job of introducing programming as a set of skills in problem solving. He guides the reader into thinking properly about producing program logic and data structures for modeling real-world problems using objects and functions and embracing the object-oriented paradigm. ... Summing Up: Highly recommended. F. H. Wild III, *Choice*, Vol. 47 (8), April 2010 Those of us who have learned scientific programming in Python 'on the streets' could be a little jealous of students who have the opportunity to take a course out of Langtangen's Primer." John D. Cook, *The Mathematical Association of America*, September 2011 This book goes through Python in particular, and programming in general, via tasks that scientists will likely perform. It contains valuable information for students new to scientific computing and would be the perfect bridge between an introduction to programming and an advanced course on numerical methods or computational science. Alex Small, *IEEE, CiSE* Vol. 14 (2), March /April 2012 "This fourth edition is a wonderful, inclusive textbook that covers pretty much everything one needs to know to go from zero to fairly sophisticated scientific programming in Python..." Joan Horvath, *Computing Reviews*, March 2015

Power Electronics in Smart Electrical Energy Networks Guilford Press

The Barkley Deficits in Executive Functioning Scale (BDEFS) is an empirically based tool for evaluating dimensions of adult executive functioning in daily life. Evidence indicates that the BDEFS is far more predictive of impairments in major life activities than more time-consuming and costly traditional EF tests. The BDEFS offers an ecologically valid snapshot of the capacities

involved in time management, organization and problem solving, self-restraint, self-motivation, and self-regulation of emotions. It comprises both self- and other-reports in a long form (15-20 minutes) and a short form (4-5 minutes). Special features include an adult ADHD risk index in the long form. Complete instructions for scoring and interpreting the scale are provided. See also the Barkley Deficits in Executive Functioning Scale--Children and Adolescents (BDEFS-CA) and Barkley's authoritative book on EF development and deficits, Executive Functions. Also available: Barkley Adult ADHD Rating Scale--IV (BAARS-IV) and Barkley Functional Impairment Scale (BFIS for Adults). Includes Permission to Photocopy Enhancing the convenience and value of the BDEFS, the limited photocopy license allows purchasers to reproduce the forms and score sheets and yields considerable cost savings over other available scales. The large format and sturdy wire binding facilitate photocopying.

The Oxford Handbook of Qualitative Research Oxford University Press, USA

Master the fundamentals of discrete mathematics with DISCRETE MATHEMATICS FOR COMPUTER SCIENCE with Student Solutions Manual CD-ROM! An increasing number of computer scientists from diverse areas are using discrete mathematical structures to explain concepts and problems and this mathematics text shows you how to express precise ideas in clear mathematical language. Through a wealth of exercises and examples, you will learn how mastering discrete mathematics will help you develop important reasoning skills that will continue to be useful throughout your career.

Modeling and Simulation for Automatic Control Springer

An introduction to marketing concepts, strategies and practices with a balance of depth of coverage and ease of learning. Principles of Marketing keeps pace with a rapidly changing field, focussing on the ways brands create and capture consumer value. Practical content and linkage are at the heart of this edition. Real local and international examples bring ideas to life and new feature 'linking the concepts' helps students test and consolidate understanding as they go. The latest edition enhances understanding with a unique learning design including revised, integrative concept maps at the start of each chapter, end-of-chapter features summarising ideas and themes, a mix of mini and major case studies to illuminate concepts, and critical

thinking exercises for applying skills.

Recent Advances in Integrated Design and Manufacturing in Mechanical Engineering Springer

Chagas disease is a potentially life threatening condition that was historically mainly endemic to Latin America. Over the last decade, however, the disease has spread to and is increasingly prevalent in other continents such as North America and Europe, with an estimated 7 million people infected worldwide. It is primarily transmitted by insect vectors that carry the parasite *Trypanosoma cruzi*, the disease agent. In areas where there is vector control and in non-endemic countries, it is mainly transmitted via congenital infection. Cardiac and gastrointestinal complications are common in untreated individuals. This book offers a comprehensive overview of Chagas disease, including its vectorial and congenital transmission, and molecular diagnosis, which is essential for screening, and developing and providing timely, effective anti-trypanosomal treatment. Written by experts working with infected patients on a daily basis, it discusses the pathogenesis of congenital, cardiac, gastrointestinal and oral Chagas disease, as well as its treatment and the pharmacological aspects of drug development in this area. Chapter "Chagas Disease Treatment Efficacy Biomarkers: Myths and Realities" is available open access under a via link.springer.com.

Lie Algebras In Particle Physics National Academies Press

Problems after each chapter

Magnetic Fusion Technology London : BFI Pub.

Quantum mechanics, the subfield of physics that describes the behavior of very small (quantum) particles, provides the basis for a new paradigm of computing. First proposed in the 1980s as a way to improve computational modeling of quantum systems, the field of quantum computing has recently garnered significant attention due to progress in building small-scale devices. However, significant technical advances will be required before a large-scale, practical quantum computer can be achieved. Quantum Computing: Progress and Prospects provides an introduction to the field, including the unique characteristics and constraints of the technology, and assesses the feasibility and implications of creating a functional quantum computer capable of addressing real-world problems. This report considers hardware and software requirements, quantum algorithms, drivers of advances in quantum computing and quantum devices,

benchmarks associated with relevant use cases, the time and resources required, and how to assess the probability of success. *Practice Guideline for the Treatment of Patients with Major Depressive Disorder* Butterworth-Heinemann

"Power Electronics in Smart Electrical Energy Networks"

introduces a new viewpoint on power electronics, re-thinking the basic philosophy governing electricity distribution systems. The proposed concept fully exploits the potential advantages of renewable energy sources and distributed generation (DG), which should not only be connected but also fully integrated into the distribution system in order to increase the efficiency, flexibility, safety, reliability and quality of the electricity and the networks. The transformation of current electricity grids into smart (resilient and interactive) networks necessitates the development, propagation and demonstration of key enabling cost-competitive technologies. A must-read for professionals in power engineering and utility industries, and researchers and postgraduates in distributed electrical power systems, the book presents the features, solutions and applications of the power electronics arrangements useful for future smart electrical energy networks.

Pārāśarapraśna Springer Science & Business Media

Discovering Addiction brings the history of human and animal experimentation in addiction science into the present with a wealth of archival research and dozens of oral-history interviews with addiction researchers. Professor Campbell examines the birth of addiction science---the National Academy of Sciences's project to find a pharmacological fix for narcotics addiction in the late 1930s---and then explores the human and primate experimentation involved in the succeeding studies of the "opium problem," revealing how addiction science became "brain science" by the 1990s. Psychoactive drugs have always had multiple personalities---some cause social problems; others solve them---and the study of these drugs involves similar contradictions. Discovering Addiction enriches discussions of bioethics by exploring controversial topics, including the federal prison research that took place in the 1970s---a still unresolved debate that continues to divide the research community---and the effect of new rules regarding informed consent and the calculus of risk and benefit. This fascinating volume is both an informative history and a thought-provoking guide that asks whether it is possible to differentiate between ethical and unethical research

by looking closely at how science is made. Nancy D. Campbell is Associate Professor of Science and Technology Studies at Rensselaer Polytechnic Institute and the author of *Using Women: Gender, Drug Policy, and Social Justice*. "Compelling and original, lively and engaging---Discovering Addiction opens up new ways of thinking about drug policy as well as the historical discourses of addiction." ---Carol Stabile, University of Wisconsin--Milwaukee
 Also available: *Student Bodies: The Influence of Student Health Services in American Society and Medicine*, by Heather Munro Prescott
Illness and the Limits of Expression, by Kathlyn Conway
White Coat, Clenched Fist: The Political Education of an American Physician, by Fitzhugh Mullan

Adaptive Signal Models Duke University Press

Introduction to Optics is now available in a re-issued edition from Cambridge University Press. Designed to offer a comprehensive and engaging introduction to intermediate and upper level undergraduate physics and engineering students, this text also allows instructors to select specialized content to suit individual curricular needs and goals. Specific features of the text, in terms of coverage beyond traditional areas, include extensive use of matrices in dealing with ray tracing, polarization, and multiple thin-film interference; three chapters devoted to lasers; a separate chapter on the optics of the eye; and individual chapters

on holography, coherence, fiber optics, interferometry, Fourier optics, nonlinear optics, and Fresnel equations.

Structure Determination by X-Ray Crystallography Springer Nature

Pink Noises brings together twenty-four interviews with women in electronic music and sound cultures, including club and radio DJs, remixers, composers, improvisers, instrument builders, and installation and performance artists. The collection is an extension of *Pinknoises.com*, the critically-acclaimed website founded by musician and scholar Tara Rodgers in 2000 to promote women in electronic music and make information about music production more accessible to women and girls. That site featured interviews that Rodgers conducted with women artists, exploring their personal histories, their creative methods, and the roles of gender in their work. This book offers new and lengthier interviews, a critical introduction, and resources for further research and technological engagement. Contemporary electronic music practices are illuminated through the stories of women artists of different generations and cultural backgrounds. They include the creators of ambient soundscapes, "performance novels," sound sculptures, and custom software, as well as the developer of the Deep Listening philosophy and the founders of the Liquid Sound

Lounge radio show and the monthly Basement Bhangra parties in New York. These and many other artists open up about topics such as their conflicted relationships to formal music training and mainstream media representations of women in electronic music. They discuss using sound to work creatively with structures of time and space, and voice and language; challenge distinctions of nature and culture; question norms of technological practice; and balance their needs for productive solitude with collaboration and community. Whether designing and building modular synthesizers with analog circuits or performing with a wearable apparatus that translates muscle movements into electronic sound, these artists expand notions of who and what counts in matters of invention, production, and noisemaking. *Pink Noises* is a powerful testimony to the presence and vitality of women in electronic music cultures, and to the relevance of sound to feminist concerns. Interviewees: Maria Chavez, Beth Coleman (M. Singe), Antye Greie (AGF), Jeannie Hopper, Bevin Kelley (Blevin Blectum), Christina Kubisch, Le Tigre, Annea Lockwood, Giulia Loli (DJ Mutamassik), Rekha Malhotra (DJ Rekha), Riz Maslen (Neotropic), Kaffe Matthews, Susan Morabito, Ikue Mori, Pauline Oliveros, Pamela Z, Chantal Passamonte (Mira Calix), Maggi Payne, Eliane Radigue, Jessica Rylan, Carla Scaletti, Laetitia Sonami, Bev Stanton (Arthur Loves Plastic), Keiko Uenishi (o.blaat)