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Roadways Journal of Engineering for Industry Computational Electrostatics for Biological Applications Quarks, Leptons & Gauge Fields Experimental Investigation of the Deformation Near a Notch Tip in Metallic Single Crystals Anechoic and Reverberation Chambers

This book presents state-of-the-art lectures delivered by international academic and industrial experts in the field of computational science and its education, covering a wide spectrum from theory to practice. Topics include new developments in finite element method (FEM), finite volume method and Spline theory, such as Moving Mesh Methods, Galerkin and Discontinuous Galerkin Schemes, Shape Gradient Methods, Mixed FEMs, Superconvergence techniques and Fourier spectral approximations with applications in multidimensional fluid dynamics; Maxwell equations in discrepancy media; and phase-field equations. It also discusses some interesting topics related to Stokes equations, Schrodinger equations, wavelet analysis and approximation theory. Contemporary teaching issues in curriculum reform also form an integral part of the book. This book will therefore be of significant interest and value to all graduates, research scientists and practitioners facing complex computational problems. Administrators and policymakers will find it is an addition to their mathematics curriculum reform libraries. Unlike most other texts on the subject, this clear, concise introduction to the theory of microscopic bodies treats the modern theory of critical phenomena. Provides up-to-date coverage of recent major advances, including a self-contained description of thermodynamics and the classical kinetic theory of gases, interesting applications such as superfluids and the quantum Hall effect, several current research applications, The last three chapters are devoted to the Landau-Wilson approach to critical phenomena. Many new problems and illustrations have been added to this edition. Focusing on basic lubrication problems this book offers

specific engineering applications. The book introduces methods and programs for the most important lubrication problems and their solutions. It is divided into four parts. The first part is about the general solving methods of the Reynolds equation, including solutions of Reynolds equations with different conditions and their discrete forms, such as a steady-state incompressible slider, journal bearing, dynamic bearing, gas bearing and grease lubrication. The second part gives the ‘energy equation solution’. The third part introduces methods and programs for elasto-hydrodynamic lurbication, which links the Reynolds equation with the elastic deformation equation. The final part presents application lubrication programs used in engineering. Provides numerical solution methodologies including appropriate software for the hydrodynamic and elasto-hydrodynamic lubrication of bearings Offers a clear introduction and orientation to all major engineering lubrication problems and their solutions Presents numerical programs for specific applications in engineering, with special topics including grease-lubricated bearings and gas bearings Equips those working in tribology and those new to the topic with the fundamental tools of calculation Downloadable programs are available at the companion website With an emphasis on clear explanations, the text offers a thorough understanding of the numerical calculation of lubrication for graduate students on tribology and engineering mechanics courses, with more detailed materials suitable for engineers. This is an accessible reference for senior undergraduate students of tribology and researchers in thin-film fluid mechanics. This book constitutes the refereed proceedings of the 7th International Work-Conference on Ambient Assisted Living, IWAAL 2015, held in Puerto Varas, Chile, in December 2015. The 20 full papers presented with 7 short papers were carefully reviewed and selected from 31 submissions. The focus of the papers is on following topics: ambient assisted living for tele-care and tele-rehabilitation; ambient assisted living

environments; behaviour analysis and activity recognition; sensing for health and wellbeing; human interaction and perspectives in ambient assisted living solutions. Statistical evaluation of diagnostic performance in general and Receiver Operating Characteristic (ROC) analysis in particular are important for assessing the performance of medical tests and statistical classifiers, as well as for evaluating predictive models or algorithms. This book presents innovative approaches in ROC analysis, which are relevant to a wide variety of applications, including medical imaging, cancer research, epidemiology, and bioinformatics. Statistical Evaluation of Diagnostic Performance: Topics in ROC Analysis covers areas including monotone-transformation techniques in parametric ROC analysis, ROC methods for combined and pooled biomarkers, Bayesian hierarchical transformation models, sequential designs and inferences in the ROC setting, predictive modeling, multireader ROC analysis, and free-response ROC (FROC) methodology. The book is suitable for graduate-level students and researchers in statistics, biostatistics, epidemiology, public health, biomedical engineering, radiology, medical imaging, biomedical informatics, and other closely related fields. Additionally, clinical researchers and practicing statisticians in academia, industry, and government could benefit from the presentation of such important and yet frequently overlooked topics. Feminism, Women's Agency, and Communication in Early Twentieth-Century China focuses on a sensational elopement in the Yangzi Delta in the late 1920s to explore how middle- and lower-class members of society gained access to and appropriated otherwise alien and abstract enlightenment theories and idioms about love, marriage, and family. Via a network of communications that connected people of differing socioeconomic and educational backgrounds, non-elite women were empowered to display their new womanhood and thereby exercise their self-activating agency to mount resistance to China's patriarchal system. Qiliang He's text also investigates the proliferation

of anti-feminist conservatisms in legal practice, scholarly discourses, media, and popular culture in the early Nanjing Decade (1927-1937). Utilizing a framework of interdisciplinary scholarship, this book traverses various fields such as legal history, women's history, popular culture/media studies, and literary studies to explore urban discourse and communication in 1920s China. "There's Plenty of Room at the Bottom" – this was the title of the lecture Prof. Richard Feynman delivered at California Institute of Technology on December 29, 1959 at the American Physical Society meeting. He considered the possibility to manipulate matter on an atomic scale. Indeed, the design and controllable synthesis of nanomaterials have attracted much attention because of their distinctive geometries and novel physical and chemical properties. For the last two decades nano-scaled materials in the form of nanofibers, nanoparticles, nanotubes, nanoclays, nanorods, nanodisks, nanoribbons, nanowhiskers etc. have been investigated with increased interest due to their enormous advantages, such as large surface area and active surface sites. Among all nanostructures, nanofibers have attracted tremendous interest in nanotechnology and biomedical engineering owing to the ease of controllable production processes, low pore size and superior mechanical properties for a range of applications in diverse areas such as catalysis, sensors, medicine, pharmacy, drug delivery, tissue engineering, filtration, textile, adhesive, aerospace, capacitors, transistors, battery separators, energy storage, fuel cells, information technology, photonic structures and flat panel displays, just to mention a few. Nanofibers are continuous filaments of generally less than about 1000 nm diameters. Nanofibers of a variety of cellulose and non-cellulose based materials can be produced by a variety of techniques such as phase separation, self assembly, drawing, melt fibrillation, template synthesis, electro-spinning, and solution spinning. They reduce the handling problems mostly associated with the nanoparticles. Nanoparticles can agglomerate and form

clusters, whereas nanofibers form a mesh that stays intact even after regeneration. The present book is a result of contributions of experts from international scientific community working in different areas and types of nanofibers. The book thoroughly covers latest topics on different varieties of nanofibers. It provides an up-to-date insightful coverage to the synthesis, characterization, functional properties and potential device applications of nanofibers in specialized areas. We hope that this book will prove to be timely and thought provoking and will serve as a valuable reference for researchers working in different areas of nanofibers. Special thanks goes to the authors for their valuable contributions. Biomaterials have had a major impact on the practice of contemporary medicine and patient care. Growing into a major interdisciplinary effort involving chemists, biologists, engineers, and physicians, biomaterials development has enabled the creation of high-quality devices, implants, and drug carriers with greater biocompatibility and biofunctiona Patriots' Games offers a microhistory of Fan Xudong's Yongli Chemical Industries from its founding in 1917 to nationalization in 1953, revealing hitherto hidden processes and dilemmas confronting private capital in modern China. This book provides an elementary introduction to one-dimensional fluid flow problems involving shock waves in air. The differential equations of fluid flow are approximated by finite difference equations and these in turn are numerically integrated in a stepwise manner, with artificial viscosity introduced into the numerical calculations in order to deal with shocks. This treatment of the subject is focused on the finite-difference approach to solve the coupled differential equations of fluid flow and presents the results arising from the numerical solution using Mathcad programming. Both plane and spherical shock waves are discussed with particular emphasis on very strong explosive shocks in air. This expanded second edition features substantial new material on sound wave parameters, Riemann's method for numerical integration of

the equations of motion, approximate analytical expressions for weak shock waves, short duration piston motion, numerical results for shock wave interactions, and new appendices on the piston withdrawal problem and numerical results for a closed shock tube. This text will appeal to students, researchers, and professionals in shock wave research and related fields. Students in particular will appreciate the benefits of numerical methods in fluid mechanics and the level of presentation. This volume reviews the latest trends in organic optoelectronic materials. Each comprehensive chapter allows graduate students and newcomers to the field to grasp the basics, whilst also ensuring that they have the most up-to-date overview of the latest research. Topics include: organic conductors and semiconductors; conducting polymers and conjugated polymer semiconductors, as well as their applications in organic field-effect-transistors; organic light-emitting diodes; and organic photovoltaics and transparent conducting electrodes. The molecular structures, synthesis methods, physicochemical and optoelectronic properties of the organic optoelectronic materials are also introduced and described in detail. The authors also elucidate the structures and working mechanisms of organic optoelectronic devices and outline fundamental scientific problems and future research directions. This volume is invaluable to all those interested in organic optoelectronic materials. This book constitutes the strictly refereed post-workshop proceedings of the European Workshop on 3D Structure from Multiple Images of Large-Scale Environments, SMILE'98, held in conjunction with ECCV'98 in Freiburg, Germany, in June 1998. The 21 revised full papers presented went through two cycles of reviewing and were carefully selected for inclusion in the book. The papers are organized in sections on multiview relations and correspondence search, 3D structure from multiple images, callibration and reconstruction using scene constraints, range integration and augmented reality application. Self-healing materials are man-made materials which have the built-

in capability to repair damage. Failure in materials is often caused by the occurrence of small microcracks throughout the material. In self-healing materials phenomena are triggered to counteract these microcracks. These processes are ideally triggered by the occurrence of damage itself. Thus far, the self-healing capacity of cement-based materials has been considered as something "extra". This could be called passive self-healing, since it was not a designed feature of the material, but an inherent property of it. Centuries-old buildings have been said to have survived these centuries because of the inherent self-healing capacity of the binders used for cementing building blocks together. In this State-of-the-Art Report a closer look is taken at self-healing phenomena in cement-based materials. It is shown what options are available to design for this effect rather than have it occur as a "coincidental extra". This book presents the latest tools, techniques, and solutions that decision makers use to overcome the challenges faced by their sustainable supply chains. Given the ever increasing significance of socio-economic and environmental factors, the management of sustainable supply chains has become a complex and dynamic task. Multiple and conflicting objectives of stakeholders including suppliers, manufacturers, service providers, and retailers add to the complexity of decisions that modern day managers of supply chains face. With the unprecedented technological developments and innovations at hand, sustainability can be maximized for all the activities of a supply chain including: service concept and product design, material sourcing and procurement, manufacturing processes, delivery of the final product, and end-of-life management of the product. Consequently, the sustainable supply chains' problems require a systematic and integrated approach. Modeling and simulation, in general, as well as system dynamics and agent-based modeling, in particular, have the capabilities to deal with the complexity of sustainable supply chain related problems. This book will appeal to professionals and

researchers in the field. Professor Kun Huang is widely known for his collaboration with Max Born in writing the classic monograph, "Dynamical Theory of Crystal Lattices". During his years of active research, he has made many important contributions to solid state physics. The present collection of papers is selected at his own choice as representing his most influential works. Thus one finds included his pioneering work on the interaction of radiation field with polar lattices and the resulting coupled vibration modes (later known as "polariton"); the systematic development of his theory of radiative and nonradiative multiphonon transition processes associated with lattice relaxation; his early prediction of diffuse X-ray scattering due to crystal defects; and his recent research works on low-dimensional semiconductor structures, etc. Professor Huang has found by his experience that scientists interested in these papers often want to know more particulars underlying the research work (background, motivation and rationale involved etc.). Thus he is led to write a commentary to be published alongside the papers. The third edition of this monograph continues to have the goal of providing an overview of current thought about the spinal cord mechanisms that are responsible for sensory processing. We hope that the book is of value to both basic and clinical neuroscientists. Several changes have been made in the presentation, as well as additions because of the research advances that have been made during the past decade. Chapters 3 and 4 in the previous edition have been subdivided, and now the morphology of primary afferent neu rons of the dorsal root ganglia is described in Chapter 3 and the chemical neuroanatomy of these neurons in Chapter 4. The description of the dorsal horn in the previous Chapter 4 is now included in Chapter 5, and the chemical neuroanatomy of the dorsal horn in Chapter 6. Furthermore, discussions of the descending control systems have now been consolidated at the end of Chapter 12. The authors would like to express their appreciation for the help provided by several individuals. R.E.C. wishes to

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acknowledge the many things he learned about primary afferent neurons from conversations with Dr S. N. Lawson. He also thanks Lyn Shilling for her assistance with the typing. WDW thanks Dr Nada Lawand for her critical reading of parts of the manuscript, Rosaline Leigh for help with the manuscript, and Griselda Gonzales for preparing the illustrations. Proceedings of the Second International Sediment/Freshwater Symposium held in Kingston, Ontario, June 15-18, 1981 This book presents established and new approaches to perform calculations of electrostatic interactions at the nanoscale, with particular focus on molecular biology applications. It is based on the proceedings of the Computational Electrostatics for Biological Applications international meeting, which brought together researchers in computational disciplines to discuss and explore diverse methods to improve electrostatic calculations. Fostering an interdisciplinary approach to the description of complex physical and biological problems, this book encompasses contributions originating in the fields of geometry processing, shape modeling, applied mathematics, and computational biology and chemistry. The main topics covered are theoretical and numerical aspects of the solution of the Poisson-Boltzmann equation, surveys and comparison among geometric approaches to the modelling of molecular surfaces and related discretization and computational issues. It also includes a number of contributions addressing applications in biology, biophysics and nanotechnology. The book is primarily intended as a reference for researchers in the computational molecular biology and chemistry fields. As such, it also aims at becoming a key source of information for a wide range of scientists who need to know how modeling and computing at the molecular level may influence the design and interpretation of their experiments. The book not only offers scientists and engineers a clear inter-disciplinary introduction and orientation to all major EHL problems and their solutions but, most importantly, it also provides numerical programs on specific application in

engineering. • A one-stop reference providing equations and their solutions to all major elastohydrodynamic lubrication (EHL) problems, plus numerical programs on specific applications in engineering • offers engineers and scientists a clear inter-disciplinary introduction and a concise program for practical engineering applications to most important EHL problems and their solutions • brings together a number of case studies in one text, each being solved using solution methods which share common features and methods This review volume consists of scientific articles representing the frontier and most advanced progress in the field of semiconductor physics and lattice dynamics. Contents:Modern Physics and Warm Friendship (C N Yang)Semiconductor Surfaces and Interfaces Studied with Synchrotron Radiation (R Bachrach et al.)A Perspective of the Development of Semiconductor Superlattices and Quantum Wells (L L Chang)Laser Studies of Polaritrons (Y R Shen)Magnetooptics of 2D-Electrons in Regime of Quantum Hall Effect (V B Timofeev)Quantal Versus Classical Pictures for the Optically Excited Electron Interacting with Phonons (Y Toyozawa)Phonoriton: A New Elementary Excitation in Semiconductors under Intense Pump Conditions (J L Birman & B S Wang)Realistic Calculation on the Second Order Nonlinear Susceptibility Tensor in Cubic Semiconductors (W Y Ching & S S Wang)Molecular Dynamics and Quantum Monte Carlo Simulations of Static and Dynamical Properties of Bulk and Surface Phonons (A A Maradudin et al.)Point Defects and Recombination in Semiconductors (J M Langer)Optical Transitions in Very Short Period GaAs-AlAs Superlattices (M D Sturge et al.)Two-Dimensional Electron Gas in Amorphous-Crystalline Si Heterojunction (R Q Han & X Y Liu)Hydrogen in Crystalline Silicon and Gallium Arsenic (G G Qin)Interaction Effects and Influence on Magnetoresistances in Two-Dimensional Hole Systems (H Z Zheng)Lattice and Spin Relaxation Approach in Low-Dimensional Physics (Z B Su & L Yu)and other papers Readership: Physicists and

condensed matter physicists. Keywords:Lattice Dynamics;Semiconductor Physics;Synchrotron Radiation This is perhaps the most up-to-date book on Modern Elementary Particle Physics. The main content is an introduction to Yang-Mills fields, and the Standard Model of Particle Physics. A concise introduction to quarks is provided, with a discussion of the representations of SU(3).The Standard Model is presented in detail, including such topics as the Kobayashi-Maskawa matrix, chiral symmetry breaking, and the ?-vacuum. Theoretical topics of a more general nature include path integrals, topological solitons, renormalization group, effective potentials, the axial anomaly, and lattice gauge theory.This second edition, which has been expanded, incorporates the following new subjects: Wilson's renormalization scheme, and its relation to perturbative renormalization; pitfalls in quantizing gauge fields, such as the Gribov ambiguity; the lattice as a consistent regularization; Monte Carlo methods of solution; and the issues, folklores, and scenarios of quark confinement. More than a quarter of the book comprise of new materials.This book may be used as a text for a one-semester course on advanced quantum field theory, or reference book for particle physicists. A comprehensive review of the recent advances in anechoic chamber and reverberation chamber designs and measurements Anechoic and Reverberation Chambers is a guide to the latest systematic solutions for designing anechoic chambers that rely on state-of-the-art computational electromagnetic algorithms. This essential resource contains a theoretical and practical understanding for electromagnetic compatibility and antenna testing. The solutions outlined optimise chamber performance in the structure, absorber layout and antenna positions whilst minimising the overall cost. The anechoic chamber designs are verified by measurement results from Microwave Vision Group that validate the accuracy of the solution. Anechoic and Reverberation Chambers fills this gap in the literature by providing a comprehensive reference to electromagnetic

measurements, applications and over-the-air tests inside chambers. The expert contributors offer a summary of the latest developments in anechoic and reverberation chambers to help scientists and engineers apply the most recent technologies in the field. In addition, the book contains a comparison between reverberation and anechoic chambers and identifies their strengths and weaknesses. This important resource: • Provides a systematic solution for anechoic chamber design by using state-of-the-art computational electromagnetic algorithms • Examines both types of chamber in use: comparing and contrasting the advantages and disadvantages of each • Reviews typical over-the-air measurements and new applications in reverberation chambers • Offers a timely and complete reference written by authors working at the cutting edge of the technology • Contains helpful illustrations, photographs, practical examples and comparison between measurements and simulations Written for both academics and industrial engineers and designers, Anechoic and Reverberation Chambers explores the most recent advances in anechoic chamber and reverberation chamber designs and measurements. This and its companion volumes 7,8, and 9 document the proceedings of the 6th International Symposium on Surfactants in Solution (SIS) held in New Delhi, India, August 18-22, 1986 under the joint auspices of the Indian Society for Surface Science and Technology, and Indian Institute of Technology, Delhi. As this symposium was a landmark -- it represented the tenth anniversary of this series of symposia -- so it is very apropos to reflect on how these symposia have evolved to their present size and status. The pedigree of this series of symposia goes back to 1976 when the premier symposium in this series was held. Actually in 1976 it was a modest start and it was not possible at that time to gaze at the crystal ball and predict what would be the state of affairs in 1986. For historical purposes, it should be recorded here that the first symposium was held in Albany, NY, under the title "Micellization, Solubilization and

Microemulsions"; the second symposium was christened "Solution Chemistry of Surfactants" and was held in Knoxville, TN, in 1978; the venue for the third symposium in 1980 was Potsdam, NY, and it was dubbed "International Symposium on Solution Behavior of Surfactants: Theoretical and Applied Aspects. Masters Theses in the Pure and Applied Sciences was first conceived, published, and disseminated by the Center for Information and Numerical Data Analysis and Synthesis (CINDAS)* at Purdue University in 1957, starting its coverage of theses with the academic year 1955. Beginning with Volume 13, the printing and dis semination phases of the activity were transferred to University Microfilms/Xerox of Ann Arbor, Michigan, with the thought that such an arrangement would be more beneficial to the academic and general scientific and technical community. After five years of this jOint undertaking we had concluded that it was in the interest of all concerned if the printing and distribution of the volumes were handled by an international publishing house to assure improved service and broader dissemination. Hence, starting with Volume 18, Masters Theses in the Pure and Applied Sciences has been disseminated on a worldwide basis by Plenum Publishing Corporation of New York, and in the same year the coverage was broadened to include Canadian universities. All back issues can also be ordered from Plenum. We have reported in Volume 40 (thesis year 1995) a total of 10,746 thesis titles from 19 Canadian and 144 United States universities. We are sure that this broader base for these titles reported will greatly enhance the value of this impor tant annual reference work. While Volume 40 reports theses submitted in 1995, on occasion, certain uni versities do report theses submitted in previous years but not reported at the time. This comprehensive handbook brings together experts who use optimization to solve problems that arise in telecommunications. It is the first book to cover in detail the field of optimization in telecommunications. Recent optimization developments that are

frequently applied to telecommunications are covered. The spectrum of topics covered includes planning and design of telecommunication networks, routing, network protection, grooming, restoration, wireless communications, network location and assignment problems, Internet protocol, World Wide Web, and stochastic issues in telecommunications. The book's objective is to provide a reference tool for the increasing number of scientists and engineers in telecommunications who depend upon optimization.

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