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Bridges the gap between device modelling and analog circuit design. Includes dedicated software enabling actual circuit design. Covers the three significant models: BSIM3, Model 9 &, and EKV. Presents practical guidance on device development and circuit implementation. The authors offer a combination of extensive academic and industrial experience. This second edition is adheres to the guiding principles of the first edition while serving as a useful and up to date manual on the theory, performance and application of CCTA. Since the publication of the first edition of this work, cardiac CT angiography (CCTA) has come a long way. It is now a main stream, well established cardiac diagnostic imaging modality with wide spread acceptance and application. Ideal for radiology residents and technologists, the third edition of this concise teaching manual is the perfect introduction to performing and interpreting CT scans. Designed as a systematic learning tool, CT Teaching Manual provides clear instructions for the use of computed tomography for all organs and includes information on positioning, the use of contrast media, multi-slice scanning, CT angiography, and dose

reduction. It features representative CT scans of normal and pathological findings, explanatory drawings with keyed anatomic structures, as well as an overview of the most important measurement data. Self-assessment quizzes and answers at the end of each chapter help the reader monitor progress and evaluate knowledge gained. This edition also includes 64-slice technology with sagittal and coronal MRP reconstructions, and dual-source CT. An insight into the design, construction and operation of the Royal Navy's classic search and rescue helicopter. For more than 25 years the Agusta Westland Sea King has been that most welcome of sights around the English coast, providing essential Search and Rescue (SAR) capabilities for those in peril both on land and at sea. The Royal Navy variant - the Sea King HU Mk 5, which is the main focus of this book - is estimated to have saved literally hundreds of lives. Author and photographer Lee Howard has been given privileged official access to the Navy's SAR air and ground crews to offer fascinating insights into operating, flying and maintaining the Sea King. Includes all works deriving from DOE, other related government-sponsored information and foreign nonnuclear information. PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database. "The book describes the disease entities, radiologic symptoms., as well as lists of differential diagnosis"--Provided by publisher. Circuit simulation is essential in integrated circuit design, and the accuracy of circuit simulation depends on the accuracy of the transistor model. BSIM3v3 (BSIM for Berkeley Short-channel IGFET Model) has been selected as the first MOSFET model for standardization by the Compact Model Council, a consortium of leading companies in semiconductor and design tools. In the next few years, many fabless and integrated semiconductor companies are expected to switch from dozens of other MOSFET models to BSIM3. This will require many device engineers and most circuit designers to learn the basics of BSIM3. MOSFET Modeling & BSIM3 User's Guide explains the detailed physical effects that are important in modeling MOSFETs, and presents the derivations of compact model expressions so that users can understand the physical meaning of the model equations and parameters. It is the first book devoted to BSIM3. It treats the BSIM3 model in detail as used in digital, analog and RF circuit design. It covers the complete set of models, i.e., I-V model, capacitance model, noise model, parasitics model, substrate current model, temperature effect model and non quasi-static model. MOSFET Modeling & BSIM3 User's Guide not only addresses the device modeling issues but also provides a user's guide to the device or circuit design engineers who use the BSIM3 model in digital/analog circuit design, RF modeling, statistical modeling, and technology prediction. This book is written for circuit designers and device engineers, as well as device scientists worldwide. It is also suitable as a reference for graduate courses and courses in circuit design or device modelling. Furthermore, it can be used as a textbook for industry courses devoted to BSIM3. MOSFET Modeling & BSIM3 User's Guide is comprehensive and practical. It is balanced between the background information and advanced discussion of BSIM3. It is helpful to experts and students alike. This problems and solutions manual is intended as a companion to an earlier textbook, Modern Atomic and Nuclear Physics (Revised Edition) (World Scientific, 2010). This manual presents solutions to many end-of-chapter problems in the textbook. These solutions are valuable to the instructors and students working in the modern atomic field. Students can master important information and concept in the process of looking at solutions to some problems, and become better equipped to solve other problems that the instructors propose. This solutions manual has a companion textbook. They are available as a paperback set with Modern Atomic and Nuclear Physics (Revised Edition). Sample Chapter(s) Chapter 1: Theory of Relativity (63 KB) Chapter 2: The Configuration of Atom: Rutherford's Model (85 KB) Chapter 12: Nuclear Interactions and Reactions (103 KB) Food safety is an important global public health and trade matter, with chemical hazards occupying centre stage due to associated acute and chronic health outcomes. There is also an increasing need to address antimicrobial resistance concerns. While food remains a major vehicle for exposure to these hazards, related matrices cannot be ignored. Animal feed for instance may contain drug or pesticide residues as well as mycotoxins that could carry-over to food either as parent compounds or their metabolites of toxicological relevance. Contaminated water is also another medium of potential exposure to food hazards. A concerted effort is required to address the need for a safe food supply and one critical stakeholder is the testing laboratory. While this requires trained and capable analysts as well as reliable instrumentation, analytical methods are a major need. Development and validation – to ensure fitness of purpose – and availability of these methods is a necessity. This manual, consisting of several Standard Operating Procedures (SOPs), presents another opportunity for laboratories to address gaps in analytical methods and/or expand their options. The manual contains techniques for analyzing certain mycotoxins such as aflatoxins, fumonisin and ochratoxin in matrices that include milk, edible vegetable oil and animal feed etc. A range of veterinary drug residues including permitted and prohibited substances in animal matrices including fish, are also addressed. Several pesticide residues in cereals, fruits and vegetables are also covered. A couple of methods for analysis of selected metals are also presented. With the emergence of smart technology and automated systems in today's world, artificial intelligence (AI) is being incorporated into an array of professions. The aviation and aerospace industry, specifically, is a field that has seen the successful implementation of early stages of automation in daily flight operations through flight management systems and autopilot. However, the effectiveness of aviation systems and the provision of flight safety still depend primarily upon the reliability of aviation specialists and human decision making. The Handbook of Research on Artificial Intelligence Applications in the Aviation and Aerospace Industries is a pivotal reference source that explores best practices for AI implementation in aviation to enhance security and the ability to learn, improve, and predict. While highlighting topics such as computer-aided design, automated systems, and human factors, this publication explores the enhancement of global aviation security as well as the methods of modern information systems in the aeronautics industry. This book is ideally designed for pilots, scientists, engineers, aviation operators, air crash investigators, teachers, academicians, researchers, and students seeking current research on the application of AI in the field of aviation. Faculty in the science, technology, engineering, and mathematics (STEM) disciplines face intensifying pressures in the 21st century, including multiple roles as educator, researcher, and entrepreneur. In addition to continuously increasing teaching and service expectations, faculty are engaged in substantive research that requires securing external funding, mentoring other faculty and graduate students, and disseminating this work in a broad range of scholarly outlets. Societal needs of their expertise include discovery, innovation, and workforce development. It is critical to provide STEM faculty with the professional development to support their complex roles and to base this development on evidence derived from research. This edited handbook provides STEM stakeholders with an opportunity to share studies and/or experiences that explore STEM faculty development (FD) in higher education settings. More specifically, we include work that examines faculty development planning, techniques/models, experiences, and outcomes focused on supporting the teaching, research, service, and leadership responsibilities of

STEM faculty. The Handbook is suited for researchers and practitioners in STEM, STEM Education, Mathematics, Science, Technology, and Engineering disciplines. It is also suited towards faculty developers, higher education administrators, funding agencies, industry leaders, and the STEM community at large. This handbook is organized around three constructs (INPUTS, MECHANISMS, and OUTPUTS). The STEM faculty development inputs construct focuses on topics related to the characteristics of faculty members and institutions that serve as barriers or supports to the adoption and implementation of holistic STEM faculty development programs. Questions addressed in the handbook around this topic include: What barriers/supports exist for STEM faculty? How are these barriers/supports being addressed through STEM FD? How do contexts (e.g., economic, political, historical) influence faculty/administrative needs related to STEM FD? How do demographics (e.g., gender, ethnicity, age, family background) influence faculty/administrative needs related to STEM FD? The STEM faculty development mechanisms construct focuses on topics related to the actual implementation of STEM faculty development and we consider the potential models or structures of STEM faculty development that are currently in place or conceptualized in theory. Questions addressed in the handbook around this topic include: What are the processes for developing models of STEM FD? What are effective models of STEM FD? How is effectiveness determined? What roles do stakeholders (e.g., faculty, administration, consultants) play within STEM FD mechanisms? The STEM faculty development outputs construct focuses on how to best understand the influence of STEM faculty development on outcomes such as productivity, teacher quality, and identity in relation to faculty development. Questions addressed in the handbook around this topic include: How has STEM FD influenced higher education practices and settings? What are appropriate output measures and how are they used in practice? What collaborations emerge from STEM FD? How does STEM FD affect other STEM stakeholders (e.g. students, administration, business, community)? The aim for this handbook was to examine the multifaceted demands of faculty roles, and together with members of the STEM education community, envision pathways through which universities and individuals may support STEM colleagues, regardless of their experience or rank, to enjoy long and satisfying careers. Our hope is for these chapters to aid readers in deep reflection on challenges faculty face, to contemplate adaptations of models presented, and to draw inspiration for creating or engaging in new professional development programs. Chapters across this handbook highlight a variety of institutional contexts from 2-year technical colleges, to teaching-focused institutions, in addition to research-centric settings. Some chapters focus primarily on teaching and learning practices and offer models for improving STEM instruction. Others focus on barriers that emerge for STEM faculty when trying to engage in development experiences. There are chapters that examine tenure structures in relation to faculty development and how STEM FD efforts could support research endeavors. Mentorship and leadership models are also addressed along with a focus on equity issues that permeate higher education and impact STEM FD. It is our sincere hope that this Handbook sparks increased discourse and continued explorations related to STEM FD, and in particular, the intentional focus of faculty development initiatives to extend to the many facets of academic life. This manual provides cost factors, nomographs and guidelines for estimating the economic effects of highway and bus-transit improvements on highway and transit users. It is intended to replace the 1960 AASHTO report "Road User Benefit Analyses for Highway Improvements." This manual presents all of the information needed for economic analysis of most types of highway and bus-transit improvements, including curve elimination, widening or adding lanes, reducing gradients, new road construction, intersection controls, dedication of lanes for buses and changes in bus routes or schedules. However, the manual user must first supply physical and financial data on the improvement and estimate its effect on highway capacity and traffic, transit patronage, miles of bus travel and average bus service speed. The 2005 meeting in Taormina, Italy was attended by 127 professionals who develop and use the highest quality detectors for wavelengths from x-ray to sub-mm, with emphasis on optical and infrared detectors. The meeting consisted of overview talks, technical presentations, poster sessions and roundtable discussions. These proceedings capture the technical content and the spirit of the 2005 workshop. The 87 papers cover a wide range of detector technologies including CCDs, CMOS, APDs, and sub-mm detectors. There are papers on observatory status and plans, special applications, detector testing and characterization, and electronics. A special feature of these proceedings is the inclusion of pedagogical overview papers, which were written by teams of leading experts from different institutions. These proceedings are appropriate for a range of expertise levels, from undergraduates to professionals working in the field. The information presented in this book will serve as a valuable reference for many years to come. This workshop was organized by the Scientific Workshop Factory, Inc. and the INAF- Osservatorio Astrofisico di Catania. This book summarizes the state-of-the-art, regarding noise in nanometer semiconductor devices. Readers will benefit from this leading-edge research, aimed at increasing reliability based on physical microscopic models. Authors discuss the most recent developments in the understanding of point defects, e.g. via ab initio calculations or intricate measurements, which have paved the way to more physics-based noise models which are applicable to a wider range of materials and features, e.g. III-V materials, 2D materials, and multi-state defects. Describes the state-of-the-art, regarding noise in nanometer semiconductor devices; Enables readers to design more reliable semiconductor devices; Offers the most up-to-date information on point defects, based on physical microscopic models. I have learned a lot from John Neu over the past years, and his book reflects very well his sense of style and purpose. --Walter Craig, McMaster University, Hamilton, Ontario, Canada and Fields Institute for Research in Mathematical Sciences, Toronto, Ontario, Canada John Neu's book presents the basic ideas of fluid mechanics, and of the transport of matter, in a clear and reader-friendly way. Then it proposes a collection of problems, starting with easy ones and gradually leading up to harder ones. Each problem is solved with all the steps explained. In the course of solving these problems, many fundamental methods of analysis are introduced and explained. This is an ideal book for use as a text, or for individual study. --Joseph B. Keller, Stanford University This book presents elementary models of transport in continuous media and a corresponding body of mathematical technique. Physical topics include convection and diffusion as the simplest models of transport; local conservation laws with sources as the general framework of continuum mechanics; ideal fluid as the simplest model of a medium with mass; momentum and energy transport; and finally, free surface waves, in particular, shallow water theory. There is a strong emphasis on dimensional analysis and scaling. Some topics, such as physical similarity and similarity solutions, are traditional. In addition, there are reductions based on scaling, such as incompressible flow as a limit of compressible flow, and shallow water theory derived asymptotically from the full equations of free surface waves. More and deeper examples are presented as problems, including a series of problems that model a tsunami approaching the shore. The problems form an embedded subtext to the book. Each problem is followed by a detailed solution emphasizing process and craftsmanship. The problems express the practice of applied mathematics as the examination and re-examination of simple but essential ideas in many interrelated examples. The creation of river dams and the

storage of water have been a strategy for survival for many centuries. Reservoirs have diverse functions, providing irrigation, water supply, storage of water, flood control, navigation and power generation. The silting of a reservoir is an unavoidable process. Although it cannot be halted, silting can be slowed down and controlled by a variety of soil conservation practices and by modifying agricultural practices in the catchment area. Other methods of reducing silting include the placing of certain engineering structures in the river system and the introduction of adequate strategies of reservoir operation. Silting and Desilting of Reservoirs includes aspects such as hydraulics, sediment transport, silting, sediment distribution, calculation and prediction of silting and solutions to reservoir silting. This book constitutes the refereed proceedings of the Third International Conference on Advances in Computing, Communication and Control, ICAC3 2013, held in Mumbai, India, in January 2013. The 69 papers presented in this volume were carefully reviewed and selected for inclusion in the book. They deal with topics such as image processing, artificial intelligence, robotics, wireless communications; data warehousing and mining, and are organized in topical sections named: computing; communication; control; and others.

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