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Dynamics and Characterization of Marine Organic Matter
Understanding the Marginal Seas of Northeast Asia for Tectonics and Submarine Geohazards
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Cryptographic Hardware and Embedded Systems
Higher Engineering Mathematics
Elements of Physical Chemistry
Higher Engineering Mathematics, 7th ed
Analytic Perturbation Theory and Its Applications
Laboratory Manual for Biotechnology
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NUCLEAR ENGINEERING FUNDAMENTALS is the most modern, up-to-date, and reader friendly nuclear engineering textbook on the market today. It provides a thoroughly modern alternative to classical nuclear engineering textbooks that have not been updated over the last 20 years. Printed in full color, it conveys a sense of awe and wonder to anyone interested in the field of nuclear energy. It discusses nuclear reactor design, nuclear fuel cycles, reactor thermal-hydraulics, reactor operation, reactor safety, radiation detection and protection, and the interaction of radiation with matter. It presents an in-depth introduction to the science of nuclear power, nuclear energy production, the nuclear chain reaction, nuclear cross sections, radioactivity, and radiation transport. All major types of reactors are introduced and discussed, and the role of internet tools in their analysis and design is explored. Reactor safety and reactor containment systems are explored as well. To convey the evolution of nuclear science and engineering, historical figures and their contributions to evolution of the nuclear power industry are explored. Numerous examples are provided throughout the text, and are brought to life through life-like portraits, photographs, and colorful

illustrations. The text follows a well-structured pedagogical approach, and provides a wide range of student learning features not available in other textbooks including useful equations, numerous worked examples, and lists of key web resources. As a bonus, a complete Solutions Manual and .PDF slides of all figures are available to qualified instructors who adopt the text. More than any other fundamentals book in a generation, it is student-friendly, and truly impressive in its design and its scope. It can be used for a one semester, a two semester, or a three semester course in the fundamentals of nuclear power. It can also serve as a great reference book for practicing nuclear scientists and engineers. To date, it has achieved the highest overall satisfaction of any mainstream nuclear engineering textbook available on the market today. THE FASCINATION The male germ cell is the only cell of the human organism that leaves the body when it has achieved its final, highly sophisticated structure and properties. The male germ cell is designed for one purpose only: to reach the female gametes and to fertilize them. The various stages in the development of the male germ cell are characterized by proliferative phases, by the recombination of the maternal and paternal chromosomes, and by the differentiation and development of a specialized transport vehicle, the spermatozoon. Furthermore, the establishment of a special pool of stem cells, the spermatogonia, guarantees the continuity of the sperm-generation process from puberty to old age. THE FATE OF THE MALE GERM CELL The destiny of any individual germ cell is determined by a program that we know only in fragments. On the one hand every human male is able to produce many billions of germ cells in his lifetime, yet the chance of any single sperm reaching and fertilizing the female germ cell is exceedingly rare. A fertility disturbance means that somewhere during the complicated playing out of the germ cell program mistakes are made, and the program fails. It is still a fact that more than 50% of men presenting with male factor infertility have to be diagnosed as idiopathic, largely because of our lack of knowledge and consequent lack of appropriate diagnostic tools. Higher Engineering Mathematics has helped thousands of students to succeed in their exams by developing problem-solving skills. It is supported by over 600 practical engineering examples and applications which relate theory to practice. The extensive and thorough topic coverage makes this a solid text for undergraduate and upper-level vocational courses. Its companion website provides resources for both students and lecturers, including lists of essential formulae, and full solutions to all 2,000 further questions contained in the 277 practice exercises; and illustrations and answers to revision tests for adopting course instructors. Chemometrics in Spectroscopy, Revised Second Edition provides the reader with the methodology crucial to apply chemometrics to real world data. The book allows scientists using

spectroscopic instruments to find explanations and solutions to their problems when they are confronted with unexpected and unexplained results. Unlike other books on these topics, it explains the root causes of the phenomena that lead to these results. While books on NIR spectroscopy sometimes cover basic chemometrics, they do not mention many of the advanced topics this book discusses. This revised second edition has been expanded with 50% more content on advances in the field that have occurred in the last 10 years, including calibration transfer, units of measure in spectroscopy, principal components, clinical data reporting, classical least squares, regression models, spectral transfer, and more. Written in the column format of the authors' online magazine Presents topical and important chapters for those involved in analysis work, both research and routine Focuses on practical issues in the implementation of chemometrics for NIR Spectroscopy Includes a companion website with 350 additional color figures that illustrate CLS concepts Mastering Public Health: A Postgraduate Guide to Examinations and Revalidation, Second Edition is an essential study aid for all those preparing for postgraduate, masters, and higher examinations in public health. Now updated and revised for the second edition, the book continues to provide all postgraduate students taking higher public health examinations with a proven, successful core revision text. The book covers the five key areas of public health knowledge: research methods; disease prevention and health promotion; health information; sociology, policy, and health economics; and organisation and management of health care. It is structured to follow the entire MFPH Part A exam syllabus, with appendices on revision strategies, exam technique and essay frameworks. Written in conjunction with an international team of editors, the book is aimed at public health practitioners who are training or re-validating in the UK and worldwide. Its concise format also serves as a quick reference text for the specialty. This revision of the introductory textbook of physical chemistry has been designed to broaden its appeal, particularly to students with an interest in biological applications. This book constitutes the refereed proceedings of the First International Workshop on Cryptographic Hardware and Embedded Systems, CHES'99, held in Worcester, MA, USA in August 1999. The 27 revised papers presented together with three invited contributions were carefully reviewed and selected from 42 submissions. The papers are organized in sections on cryptographic hardware, hardware architectures, smartcards and embedded systems, arithmetic algorithms, power attacks, true random numbers, cryptographic algorithms on FPGAs, elliptic curve implementations, new cryptographic schemes and modes of operation. The Model Rules of Professional Conduct provides an up-to-date resource for information on legal ethics. Federal, state and local courts in all jurisdictions look to the Rules for guidance in solving lawyer

malpractice cases, disciplinary actions, disqualification issues, sanctions questions and much more. In this volume, black-letter Rules of Professional Conduct are followed by numbered Comments that explain each Rule's purpose and provide suggestions for its practical application. The Rules will help you identify proper conduct in a variety of given situations, review those instances where discretionary action is possible, and define the nature of the relationship between you and your clients, colleagues and the courts. This monograph presents teaching material in the field of differential equations while addressing applications and topics in electrical and biomedical engineering primarily. The book contains problems with varying levels of difficulty, including Matlab simulations. The target audience comprises advanced undergraduate and graduate students as well as lecturers, but the book may also be beneficial for practicing engineers alike. Special edition of the Federal Register, containing a codification of documents of general applicability and future effect ... with ancillaries. Before you can say 'Abracadabra', you can astound your friends with amazing math tricks and stunts. You'll pull calculator capers and card conjuring mysteries, as well as mind-baffling feats based on dice, calendars, coins and more. Make your calculator talk to you. Conjure up the date a friend was born Sprinkle a little magic into your subtraction Turn your calculator into a crystal ball Summon the 'Number Spirits' to predict which card will be pulled from a deck of cards With the greatest of ease, you'll read people's minds, predict the future, make numbers appear out of nowhere, and perform astonishing hocus-pocus. It gives a new meaning to the expression 'math wizard'. INTRODUCTION TO NUCLEAR REACTOR PHYSICS is the most comprehensive, modern and readable textbook for this course/module. It explains reactors, fuel cycles, radioisotopes, radioactive materials, design, and operation. Chain reaction and fission reactor concepts are presented, plus advanced coverage including neutron diffusion theory. The diffusion equation, Fisk's Law, and steady state/time-dependent reactor behavior. Numerical and analytical solutions are also covered. The text has full color illustrations throughout, and a wide range of student learning features. Now in its eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises. Mathematical models are often used to describe complex phenomena such as climate change dynamics, stock market fluctuations, and the Internet. These models typically depend on estimated values of key parameters that determine system behavior. Hence it is important to know what happens when these values are changed. The study of single-parameter deviations provides a natural starting point for this analysis in many special settings in the sciences,

engineering, and economics. The difference between the actual and nominal values of the perturbation parameter is small but unknown, and it is important to understand the asymptotic behavior of the system as the perturbation tends to zero. This is particularly true in applications with an apparent discontinuity in the limiting behavior?the so-called singularly perturbed problems. Analytic Perturbation Theory and Its Applications includes a comprehensive treatment of analytic perturbations of matrices, linear operators, and polynomial systems, particularly the singular perturbation of inverses and generalized inverses. It also offers original applications in Markov chains, Markov decision processes, optimization, and applications to Google PageRank? and the Hamiltonian cycle problem as well as input retrieval in linear control systems and a problem section in every chapter to aid in course preparation. A practical introduction to the core mathematics principles required at higher engineering level John Bird's approach to mathematics, based on numerous worked examples and interactive problems, is ideal for vocational students that require an advanced textbook. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced mathematics engineering that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper level vocational courses. Now in its seventh edition, Engineering Mathematics has helped thousands of students to succeed in their exams. The new edition includes a section at the start of each chapter to explain why the content is important and how it relates to real life. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 1900 further questions contained in the 269 practice exercises. Chemical process quantitative risk analysis (CPQRA) as applied to the CPI was first fully described in the first edition of this CCPS Guidelines book. This second edition is packed with information reflecting advances in this evolving methodology, and includes worked examples on a CD-ROM. CPQRA is used to identify incident scenarios and evaluate their risk by defining the probability of failure, the various consequences and the potential impact of those consequences. It is an invaluable methodology to evaluate these when qualitative analysis cannot provide adequate understanding and when more information is needed for risk management. This technique provides a means to evaluate acute hazards and alternative risk reduction strategies, and identify areas for cost-effective risk reduction. There are no simple answers when complex issues are concerned, but CPQRA2 offers a cogent, well-illustrated guide to applying these risk-analysis techniques, particularly to risk control studies. Special Details: Includes CD-ROM with example problems worked using Excel and Quattro Pro. For use with Windows 95, 98, and NT. Over the past decade the scientific activities of the Joint Global Ocean Flux Study (JGOFS), which focuses on the role of the oceans in controlling climate change via the transport and storage of greenhouse gases and organic matter, have led to an increased interest in the study of the biogeochemistry of organic matter. There is also a growing interest in global climate fluctuations. This, and the

need for a precise assessment of the dynamics of carbon and other bio-elements, has led to a demand for an improved understanding of biogeochemical processes and the chemical characteristics of both particulate and dissolved organic matter in the ocean. A large amount of proxy data has been published describing the changes of the oceanic environment, but qualitative and quantitative estimates of the vertical flux of (proxy) organic compounds have not been well documented. There is thus an urgent need to pursue this line of study and, to this end, this book starts with several papers dealing with the primary production of organic matter in the upper ocean. Thereafter, the book goes on to follow the flux and characterization of particulate organic matter, discussed in relation to the primary production in the euphotic zone and resuspension in the deep waters, including the vertical flux of proxy organic compounds. It goes on to explain the decomposition and transformation of organic matter in the ocean environment due to photochemical and biological agents, and the reactivity of bulk and specific organic compounds, including the air-sea interaction of biogenic gases. The 22 papers in the book reflect the interests of JGOFS and will thus serve as a valuable reference source for future biogeochemical investigations of both bio-elements and organic matter in seawater, clarifying the role of the ocean in global climate change. With the 'post genomics' era comes an increasing demand for the techniques of cell biology, critical to interpreting the function and location of the cell's myriad proteins and macromolecules. In response, this second edition of Plant Cell Biology balances established techniques, including classical histochemistry and electron microscopy, with new developments in the field. The book covers a substantial range of methods for working on living cells, including the application of fluorescent probes, cytometry, expression systems, the use of green fluorescent protein, micromanipulation and electrophysiological techniques. Also featured are chapters on macromolecular location procedures involving immunocytochemistry and in situ hybridisation, and the book concludes with a range of biochemical techniques for the isolation of cytoplasmic organelles. The book provides advanced students, postgraduates and researchers in the plant sciences with an invaluable comprehensive guide to the ever-growing field of plant cell biology. Laboratory Manual in Biotechnology Students Kaplan's SAT Math Prep provides the realistic practice, key concepts, and expert advice you need to master the most important math topics on the test. This focused guide includes in-depth content coverage and effective score-raising strategies from Kaplan's top math experts to help you face the SAT with confidence. We are so certain that SAT Math Prep offers the review you need that we guarantee it: After studying with our book, you'll score higher on the SAT--or you'll get your money back. Realistic Practice. Effective Strategies. 16 comprehensive practice sets with detailed explanations More than 250 practice questions with expert explanations Methods and strategies to help you build speed and improve your score Techniques for tackling multiple choice, grid-in, and extended thinking questions Review of the most important math concepts, from basic algebra to advanced trig Expert Guidance 9 out of 10 Kaplan students

get into one or more of their top choice college We know the test: Our experts have put tens of thousands of hours into studying the SAT - using real data to design the most effective strategies and study materials. We invented test prep. Kaplan has been helping students achieve their goals for over 80 years. Learn more at kaptest.com. The previous edition of this book was titled Kaplan Math Workbook for the New SAT. This book covers the statistical concepts of sampling in agricultural pest management. These can be summarised as how to obtain sample data from the field and how to use the data in decision-making. Options may include introducing natural enemies, spraying with pesticide, or adopting a wait-and-see approach. Some prior knowledge of pests and how they interact with crops is required of the reader, but only minimal mathematical background is assumed. Worked examples using the mathematical software program Mathcad are also included. Planned, developed and written by practising classroom teachers with a wide variety of experience in schools, this maths course has been designed to be enjoyable and motivating for pupils and teachers. The course is open and accessible to pupils of all abilities and backgrounds, and is differentiated to provide material which is appropriate for all pupils. It provides spiral coverage of the curriculum which involves regular revisiting of key concepts to promote familiarity through practice. This book, designed for the higher level of the GCSE, adheres to the Edexcel specification. These proceedings consist of plenary rapporteur talks covering topics of major interest to the high energy physics community and parallel sessions papers which describe recent research results and future plans. "This seminar focuses on recent achievements and new goals of nuclear structure in both experiment and theory. Several topics at the forefront of current research in this field are covered by major experts. The main themes are: exotic nuclei; the present role and perspectives of the shell model; modes of excitation in deformed and superdeformed nuclei; and nuclear astrophysics."--Publisher's website. The only textbook written specifically for Intermediate or Advanced Corporate Finance courses, Brigham/Daves' INTERMEDIATE FINANCIAL MANAGEMENT, 12E equips students with a solid

understanding of both conceptual theories and practical financial skills. Offering a clear presentation, this comprehensive text from renowned author team Gene Brigham and Phillip Daves reinforces coverage from earlier corporate finance courses while providing new, progressive material to challenge even the most advanced learners. The authors use corporate valuation as a unifying theme to emphasize the theoretic groundwork for value maximization and the practical skills to analyze business decisions. The book's reader-friendly approach incorporates actual business examples and integrated cases as well as Excel spreadsheet models to demonstrate how financial theory in practice leads to solid financial decisions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. The present book introduces and develops mathematical techniques for the treatment of nonlinear waves and singular perturbation methods at a level that is suitable for graduate students, researchers and faculty throughout the natural sciences and engineering. The practice of implementing these techniques and their value are largely realized by showing their application to problems of nonlinear wave phenomena in electronic transport in solid state materials, especially bulk semiconductors and semiconductor superlattices. The authors are recognized leaders in this field, with more than 30 combined years of contributions. Introduction to state-space methods covers feedback control; state-space representation of dynamic systems and dynamics of linear systems; frequency-domain analysis; controllability and observability; shaping the dynamic response; and more. 1986 edition.

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