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Fundamentals of Fluid Film Lubrication IWA Publishing

About the Book: Written by three distinguished authors with ample academic and teaching experience, this textbook, meant for diploma and degree students of Mechanical Engineering as well as those preparing for AMIE examination, incorporates the latest st

Flood Control and Drainage Engineering, 3rd Edition Pearson Higher Ed

This textbook is appropriate for senior undergraduate and first year graduate students in mechanical and automotive engineering. The contents in this book are presented at a theoretical-practical level. It explains vehicle dynamics concepts in detail, concentrating on their practical use. Related theorems and formal proofs are provided, as are real-life applications. Students, researchers and practicing engineers alike will appreciate the user-friendly presentation of a wealth of topics, most notably steering, handling, ride, and related components. This book also: Illustrates all key concepts with examples Includes exercises for each chapter Covers front, rear, and four wheel steering systems, as well as the advantages and disadvantages of different steering schemes Includes an emphasis on design throughout the text, which provides a practical, hands-on approach

Fish Physiology: Organic Chemical

Toxicology of Fishes Springer Nature

For courses in Civil Engineering Materials, Construction Materials, and Construction Methods and Materials offered in Civil, Environmental, or Construction engineering departments. This introduction gives students a basic understanding of the material selection process and the behavior of materials – a fundamental requirement for all civil and construction engineers performing design, construction, and maintenance. The authors cover the various materials used by civil and construction engineers in one useful reference, limiting the vast amount of information available to the introductory level, concentrating on current practices, and extracting information that is relevant to the general education of civil and construction engineers. A large number of experiments, figures, sample problems, test methods, and homework problems gives students opportunity for practice and review.

Risk Management and Simulation Pearson Higher Ed

This report identifies potential improvements in terms of more effective safety and environmental regulation for trucks, backed by better systems of enforcement, and identifies opportunities for greater efficiency and higher productivity.

Nuclear and Radiological Emergencies in Animal Production Systems, Preparedness, Response and Recovery Oxford University Press, USA

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For senior-level or first-year graduate-level courses in control analysis and design, and related courses within engineering, science, and management. Feedback Control of Dynamic Systems, Sixth Edition is perfect for practicing control engineers who wish to maintain their skills. This revision of a top-selling textbook on feedback control with the associated web site, FPE6e.com, provides greater instructor flexibility and student readability. Chapter 4 on A First Analysis of Feedback has been substantially rewritten to present the material in a more logical and effective manner. A new case study on biological control introduces an important new area to the students, and each chapter now includes a historical perspective to illustrate the origins of the field. As in earlier editions, the book has been updated so that solutions are based on the latest versions of MATLAB and SIMULINK. Finally, some of the more exotic topics have been moved to the web site.

Fox and McDonald's Introduction to Fluid Mechanics

Cambridge University Press

Chemical reaction engineering is concerned with the exploitation of chemical reactions on a commercial scale. It's goal is the successful design and operation of chemical reactors. This text emphasizes qualitative arguments, simple design methods, graphical procedures, and frequent comparison of capabilities of the major reactor types. Simple ideas are treated first, and are then extended to the more complex.

International Conference on Innovative Computing and Communications Springer

Fish Physiology: Organic Chemical Toxicology of Fishes discusses the different types of organic chemical contaminants and their respective toxic effects in fish. The book also covers the detection of dissolved organic compounds and methods to assess organic toxicity. Substances addressed in this book include organometallics, hydrocarbons, endocrine disrupting compounds (EDCs), insecticides, herbicides, and pharmaceuticals. Fish are exposed to an ever-increasing array of organic chemicals that find their way into rivers and oceans. Some of these compounds are no longer being produced but nonetheless persist within the environment (persistent organic pollutants, or POPs). The exposure of fish to toxic organic compounds has potential impact on human, fish, and ecosystem health. Yet the regulations that govern environmental water quality vary worldwide, and compliance is never complete. This book provides a crucial resource on these issues for researchers in zoology, fish physiology, and related fields; applied researchers in environmental monitoring, conservation biology, and toxicology; and university-level students and instructors in these areas. - Organized by type of toxic organic chemicals - Includes metals, POPs, EDCs, herbicides, insecticides, and pharmaceuticals - Measures toxicity in a variety of ways aside from lethality - Probes the toxic effects of compound mixtures as well as single pollutants

Probability and Statistics for Engineering and the Sciences + Enhanced Weassign Access Springer Nature

There is need in environmental research for a book on fresh waters including rivers and lakes. Compared with other books on the topic, this book has a unique outline in that it follows pollution from sources to impact. Included in the text is the treatment of various tracers, ranging from pathogens to stable isotopes of elements and providing a comprehensive discussion which is lacking in many other books on pollution control of natural waters. Geophysical processes are discussed emphasizing mixing of water, interaction between water and the atmosphere, and sedimentation processes. Important geochemistry processes occurring in natural waters are described as are the processes specific to nutrients, organic pollutants, metals, and pathogens in subsequent chapters. Each of these chapters includes an introduction on the selected groups, followed by the physicochemical properties which are the most relevant to their behavior in natural waters, and the theories and models to describe their speciation, transport and transformation. The book also includes the most up to date information including a discussion on emerging pollutants such as brominated and phosphate flame retardants, perfluorochemicals, and pharmaceutical and personal care products. Due to its importance an ecotoxicology chapter has been included featuring molecular biological methods, nanoparticles, and comparison of the basis of biotic ligand model with the Weibull dose-response model. Finally, the last chapter briefly summarizes the regulations on ambient water quality.

The East German Economy, 1945-2010 Springer Science & Business Media

Now in its second edition, this introductory statistics textbook conveys the essential concepts and tools needed to develop and nurture statistical thinking. It presents descriptive, inductive and explorative statistical methods and guides the reader through the process of quantitative data analysis. This revised and extended edition features new chapters on logistic regression, simple random sampling, including bootstrapping, and causal inference. The text is primarily intended for undergraduate students in disciplines such as business administration, the social sciences, medicine, politics, and macroeconomics. It features a wealth of examples, exercises and solutions with computer code in the statistical programming language R, as well as supplementary material that will enable the reader to quickly adapt the methods to their own applications.

Physical and Chemical Processes in the Aquatic Environment John Wiley & Sons

The challenges of the current financial environment have revealed the need for a new generation of professionals who combine training in traditional finance disciplines with an understanding of sophisticated quantitative and analytical tools. Risk Management and Simulation shows how simulation modeling and analysis can help you solve risk management

Artificial Intelligence Elsevier

This book provides a broad overview on the different aspects of solar energy, with a focus on photovoltaics, which is the technology that allows light energy to be converted into electric energy. Renewable energy sources have become increasingly popular in recent years, and solar is one of the most adaptable and attractive

types – from solar farms to support the National Grid to roof panels/tiles used for solar thermal heating systems, and small solar garden lights. Written by Delft University researchers, Solar Energy uniquely covers both the physics of photovoltaic (PV) cells and the design of PV systems for real-life applications, from a concise history of solar cells components and location issues of current systems. The book is designed to make this complicated subject accessible to all, and is packed with fascinating graphs and charts, as well as useful exercises to cement the topics covered in each chapter. Solar Energy outlines the fundamental principles of semiconductor solar cells, as well as PV technology: crystalline silicon solar cells, thin-film cells, PV modules, and third-generation concepts. There is also background on PV systems, from simple stand-alone to complex systems connected to the grid. This is an invaluable reference for physics students, researchers, industrial engineers and designers working in solar energy generation, as well those with a general interest in renewable energy.

Generalized Additive Models CRC Press

China's People's Liberation Army (PLA) has embarked on its most wide-ranging and ambitious restructuring since 1949, including major changes to most of its key organizations. The restructuring reflects the desire to strengthen PLA joint operation capabilities- on land, sea, in the air, and in the space and cyber domains. The reforms could result in a more adept joint warfighting force, though the PLA will continue to face a number of key hurdles to effective joint operations. Several potential actions would indicate that the PLA is overcoming obstacles to a stronger joint operations capability. The reforms are also intended to increase Chairman Xi Jinping's control over the PLA and to reinvigorate Chinese Communist Party (CCP) organs within the military. Xi Jinping's ability to push through reforms indicates that he has more authority over the PLA than his recent predecessors. The restructuring could create new opportunities for U.S.-China military contacts.

Innovative Wastewater Treatment & Resource Recovery Technologies: Impacts on Energy, Economy and Environment IDRC

Specifically focusing on fluid film, hydrodynamic, and elasto-hydrodynamic lubrication, this edition studies the most important principles of fluid film lubrication for the correct design of bearings, gears, and rolling operations, and for the prevention of friction and wear in engineering designs. It explains various theories, procedures, and equations for improved solutions to machining challenges. Providing more than 1120 display equations and an introductory section in each chapter, Fundamentals of Fluid Film Lubrication, Second Edition facilitates the analysis of any machine element that uses fluid film lubrication and strengthens understanding of critical design concepts.

Business Statistics Random House

In a world in which we are constantly surrounded by data, figures, and statistics, it is imperative to understand and to be able to use quantitative methods. Statistical models and methods are among the most important tools in economic analysis, decision-making and business planning. This textbook, "Exploratory Data Analysis in Business and Economics", aims to familiarise students of economics and business as well as practitioners in firms with the basic principles, techniques, and applications of descriptive statistics and data analysis. Drawing on practical examples from business settings, it demonstrates the basic descriptive methods of univariate and bivariate analysis. The textbook covers a range of subject matter, from data collection and scaling to the presentation and univariate analysis of quantitative data, and also includes analytic procedures for assessing bivariate relationships. It does not confine itself to presenting descriptive statistics, but also addresses the use of computer programmes such as Excel, SPSS, and STATA, thus treating all of the topics typically covered in a university course on descriptive statistics. The German edition of this textbook is one of the "bestsellers" on the German market for literature in statistics.

Ecological Methods Springer Nature

Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading

from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: - Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects.

- New discussion of conceptual plant design, flowsheet development and revamp design
- Significantly increased coverage of capital cost estimation, process costing and economics
- New chapters on equipment selection, reactor design and solids handling processes
- New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography
- Increased coverage of batch processing, food, pharmaceutical and biological processes
- All equipment chapters in Part II revised and updated with current information
- Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards
- Additional worked examples and homework problems
- The most complete and up to date coverage of equipment selection
- 108 realistic commercial design projects from diverse industries
- A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website
- Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors

Making Choices about Hydrogen Bloomsbury Publishing

"The 4th edition of Ghahramani's book is replete with intriguing historical notes, insightful comments, and well-selected examples/exercises that, together, capture much of the essence of probability. Along with its Companion Website, the book is suitable as a primary resource for a first course in probability. Moreover, it has sufficient material for a sequel course introducing stochastic processes and stochastic simulation." --Nawaf Bou-Rabee, Associate Professor of Mathematics, Rutgers University Camden, USA "This book is an excellent primer on probability, with an incisive exposition to stochastic processes included as well. The flow of the text aids its readability, and the book is indeed a treasure trove of set and solved problems. Every sub-topic within a chapter is supplemented by a comprehensive list of exercises, accompanied frequently by self-quizzes, while each chapter ends with a useful summary and another rich collection of review problems." --Dalia Chakrabarty, Department of Mathematical Sciences, Loughborough University, UK "This textbook provides a thorough and rigorous treatment of fundamental probability, including both discrete and continuous cases. The book's ample collection of exercises gives instructors and students a great deal of practice and tools to sharpen their understanding. Because the definitions, theorems, and examples are clearly labeled and easy to find, this book is not only a great course accompaniment, but an invaluable reference." --Joshua Stangle, Assistant Professor of Mathematics, University of Wisconsin – Superior, USA This one- or two-term calculus-based basic probability text is written for majors in mathematics, physical sciences, engineering, statistics, actuarial science, business and finance, operations research, and computer science. It presents probability in a natural way: through interesting and instructive examples and exercises that motivate the theory, definitions, theorems, and methodology. This book is mathematically rigorous and, at the same time, closely matches the historical development of probability. Whenever appropriate, historical remarks are included, and the 2096 examples and exercises have been carefully designed to arouse curiosity and hence encourage students to delve into the theory with enthusiasm. New to the Fourth Edition: 538 new examples and exercises have been added, almost all of which are of applied nature in realistic contexts Self-quizzes at the end of each section and self-tests at the end of each chapter allow students to check their comprehension of the material An all-new Companion Website includes additional examples, complementary topics not covered in the previous editions, and applications for more in-depth studies, as well as a test bank and figure slides. It also includes complete solutions to all self-test and self-quiz problems Saeed Ghahramani is Professor of Mathematics and Dean of the College of Arts and Sciences at Western New England University. He received his Ph.D. from the University of California at Berkeley in Mathematics and is a recipient of teaching awards from Johns Hopkins University and Towson University. His research focuses on applied probability, stochastic processes, and queuing theory.

Machine Drawing John Wiley & Sons

4th edition of this classic Ecology text Computational methods have largely been replaced by descriptions of the available software Includes procedure information for R software and other freely available software systems Now includes web references for equipment, software and detailed methodologies

Soft Solders OECD Publishing

This open access book covers comprehensive but fundamental principles and concepts of disaster and accident prevention and mitigation, countermeasures, and recovery from disasters or accidents including treatment and care of the victims. Safety and security problems in our society involve not only engineering but also social, legal, economic, cultural, and psychological issues. The enhancement needed for societal safety includes comprehensive

activities of all aspects from precaution to recovery, not only of people but also of governments. In this context, the authors, members of the Faculty of Societal Safety Science, Kansai University, conducted many discussions and concluded that the major strategy is consistent independently of the type and magnitude of disaster or accident, being also the principle of the foundation of our faculty. The topics treated in this book are rather widely distributed but are well organized sequentially to provide a clear understanding of the principles of societal safety. In the first part the fundamental concepts of safety are discussed. The second part deals with risks in the societal and natural environment. Then follows, in the third part, a description of the quantitative estimation of risk and its assessment and management. The fourth part is devoted to disaster prevention, mitigation, and recovery systems. The final, fifth part presents a future perspective of societal safety science. Thorough reading of this introductory volume of societal safety science provides a clear image of the issues. This is largely because the Japanese have suffered often from natural disasters and not only have gained much valuable information about disasters but also have accumulated a store of experience. We are still in the process of reconstruction from the Great East Japan earthquake and the Fukushima nuclear power plant accident. This book is especially valuable therefore in studying the safety and security of people and their societies.

Introduction to Statistics and Data Analysis John Wiley & Sons

This comprehensive text presents descriptive and inferential statistics with an assortment of business examples and real data, and an emphasis on decision-making. The accompanying CD-ROM presents Excel and Minitab tutorials as well as data files for all the exercises and examples presented.

Chemical Reaction Engineering New Age International

"This ... study guide effectively reinforces all the key concepts for the latest syllabus at SL and HL(First examined 2016). Packed with detailed assessment guidance, it supports the highest achievement in exams"--Back cover