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KOCH NICHOLSON

Introduction to Java Programming Sams Publishing
KEY MESSAGE: Inspired by the success their best-selling introductory programming text, Java Software Solutions, authors Lewis, DePasquale, and Chase now release Java Foundations. Their newest text is a comprehensive resource for instructors who want a two-semester introduction to programming textbook that includes data structures topics. Java Foundations introduces a Software Methodology early on and revisits it throughout to ensure students develop sound program development skills from the beginning. MARKET: For all readers interested in introductory

programming using the Java™ programming language.

BUSINESS DATA NETWORKS AND SECURITY

Wiley-IEEE Press
Up-to-Date Coverage of All Chemical Engineering Topics—from the Fundamentals to the State of the Art Now in its 85th Anniversary Edition, this industry-standard resource has equipped generations of engineers and chemists with vital information, data, and insights. Thoroughly revised to reflect the latest technological advances and processes, Perry's Chemical Engineers' Handbook, Ninth Edition, provides unsurpassed coverage of every aspect of chemical engineering. You will get comprehensive details on chemical processes, reactor modeling, biological processes, biochemical and membrane separation, process and chemical plant safety, and much more. This fully updated edition covers:

Unit Conversion Factors and Symbols • Physical and Chemical Data including Prediction and Correlation of Physical Properties • Mathematics including Differential and Integral Calculus, Statistics, Optimization • Thermodynamics • Heat and Mass Transfer • Fluid and Particle Dynamics • Reaction Kinetics • Process Control and Instrumentation • Process Economics • Transport and Storage of Fluids • Heat Transfer Operations and Equipment • Psychrometry, Evaporative Cooling, and Solids Drying • Distillation • Gas Absorption and Gas-Liquid System Design • Liquid-Liquid Extraction Operations and Equipment • Adsorption and Ion Exchange • Gas-Solid Operations and Equipment • Liquid-Solid Operations and Equipment • Solid-Solid Operations and Equipment • Chemical Reactors • Bio-based Reactions and Processing • Waste Management including Air, Wastewater and Solid Waste Management • Process Safety including Inherently Safer Design • Energy Resources, Conversion and Utilization • Materials of Construction

Principles of Asynchronous Circuit Design Springer Science & Business Media

C Unleashed is a very comprehensive book on the ANSI C programming language. This book promotes solid, portable programming using ANSI C, thus benefiting programmers on any platform, including mainframes. Covers the New Standard for C, known as C9X, and includes embedded systems, simulation processing, threading and multiprocessing, digital signal processing, and natural language processing.

Diffusion MRI Academic Press

Cheryl Schmidt's *The Complete A+ Guide to PC Repair, Fifth Edition Update* presents the fundamentals of computer desktop and laptop installation, configuration, maintenance, and networking through simple, step-by-step instruction based on CompTIA A+® 2011 Edition objectives. With a focused emphasis on security and customer service skills, this comprehensive book on computer repair introduces the most important tools students need to become professional, customer-friendly technicians using today's technology. The A+ Certification Exam criteria are being updated, effective January 2011, to include Windows 7. The Fifth Edition Update now includes Windows 7 material.

Freshwater Ecology Packt Publishing Ltd

This book outlines the effects that technology-induced change will have on sport within the next five to ten years, and provides food for thought concerning what lies further ahead. Presented as a collection of essays, the authors are leading academics from renowned institutions such as Massachusetts Institute of Technology, Queensland University of Technology, and the University of Cambridge, and practitioners with extensive technological expertise. In their essays, the authors examine the impacts of emerging technologies like artificial intelligence, the Internet of Things, and robotics on sports and assess how they will change sport itself, consumer behavior, and existing business models. The book will help athletes, entrepreneurs, and innovators working in the sports industry to spot trendsetting technologies, gain deeper insights into how they will affect their activities, and identify the most effective responses to stay ahead of the competition both on and off the pitch.

Simulation of Power Electronics Converters Using PLECS® Academic Press

Understand the fundamentals and develop your own AI solutions in this updated edition packed with many new examples Key Features AI-based examples to guide you in designing and implementing

machine intelligence Build machine intelligence from scratch using artificial intelligence examples Develop machine intelligence from scratch using real artificial intelligence Book Description AI has the potential to replicate humans in every field. Artificial Intelligence By Example, Second Edition serves as a starting point for you to understand how AI is built, with the help of intriguing and exciting examples. This book will make you an adaptive thinker and help you apply concepts to real-world scenarios. Using some of the most interesting AI examples, right from computer programs such as a simple chess engine to cognitive chatbots, you will learn how to tackle the machine you are competing with. You will study some of the most advanced machine learning models, understand how to apply AI to blockchain and Internet of Things (IoT), and develop emotional quotient in chatbots using neural networks such as recurrent neural networks (RNNs) and convolutional neural networks (CNNs). This edition also has new examples for hybrid neural networks, combining reinforcement learning (RL) and deep learning (DL), chained algorithms, combining unsupervised learning with decision trees, random forests, combining DL and genetic algorithms, conversational user interfaces (CUI) for chatbots, neuromorphic computing, and quantum computing. By the end of this book, you will understand the fundamentals of AI and have worked through a number of examples that will help you develop your AI solutions. What you will learn Apply k-nearest neighbors (KNN) to language translations and explore the opportunities in Google Translate Understand chained algorithms combining unsupervised learning with decision trees Solve the XOR problem with feedforward neural networks (FNN) and build its architecture to represent a data flow graph Learn about meta learning models with hybrid neural networks Create a chatbot and optimize its emotional intelligence deficiencies with tools such as Small Talk and data logging Building conversational user interfaces (CUI) for chatbots Writing genetic algorithms that optimize deep learning neural networks Build quantum computing circuits Who this book is for Developers and those interested in AI, who want to understand the fundamentals of Artificial Intelligence and implement them practically. Prior experience with Python programming and statistical knowledge is essential to make the most out of this book.

Conservation Biology AIAA (American Institute of Aeronautics & Astronautics)

Benford's law states that the leading digits of many data sets are not uniformly distributed from one through nine, but rather exhibit a profound bias. This bias is evident in everything from electricity bills and street addresses to stock prices, population numbers, mortality rates, and the lengths of rivers. Here, Steven Miller brings together many of the world's leading experts on Benford's law to demonstrate the many useful techniques that arise from the law, show how truly multidisciplinary it is, and encourage collaboration. Beginning with the general theory, the contributors explain the prevalence of the bias, highlighting explanations for when systems should and should not follow Benford's law and how quickly such behavior sets in. They go on to discuss important applications in disciplines ranging from accounting and economics to psychology and the natural sciences. The contributors describe how Benford's law has been successfully used to expose fraud in elections, medical tests, tax filings, and financial reports. Additionally, numerous problems, background materials, and technical details are available online to help instructors create courses around the book. Emphasizing common challenges and techniques across the disciplines, this accessible book shows how Benford's law can serve as a productive meeting ground for researchers and

practitioners in diverse fields.

FLEXIBLE AC TRANSMISSION SYSTEMS

Elsevier Health Sciences

This new edition of the book, is restructured to trace the advancements made and landmarks achieved in software engineering. The text not only incorporates latest and enhanced software engineering techniques and practices, but also shows how these techniques are applied into the practical software assignments. The chapters are incorporated with illustrative examples to add an analytical insight on the subject. The book is logically organised to cover expanded and revised treatment of all software process activities. **KEY FEATURES** • Large number of worked-out examples and practice problems • Chapter-end exercises and solutions to selected problems to check students' comprehension on the subject • Solutions manual available for instructors who are confirmed adopters of the text • PowerPoint slides available online at www.phindia.com/rajibmall to provide integrated learning to the students **NEW TO THE FIFTH EDITION** • Several rewritten sections in almost every chapter to increase readability • New topics on latest developments, such as agile development using SCRUM, MC/DC testing, quality models, etc. • A large number of additional multiple choice questions and review questions in all the chapters help students to understand the important concepts **TARGET AUDIENCE** • BE/B.Tech (CS and IT) • BCA/MCA • M.Sc. (CS) • MBA
Phlebotomy: A Competency-Based Approach World Scientific

Transforming service into extraordinary guest experiences—with repeat business the reward For the past decade, Remarkable Service has been the most comprehensive guide to standard-setting restaurant service techniques and principles. This all-new edition features a completely reorganized, updated look at table service and foodservice management, from setting up a dining room and taking guests' orders to executing wine service and handling customer complaints. With straightforward advice from The Culinary Institute of America's expert table service and foodservice management faculty, Remarkable Service, Third Edition offers new "Scripts for Service Scenarios" throughout to help servers practice such real-world scenarios as recommending a dish, taking reservations, and dealing with special requests. This book also addresses the service needs of a wide range of dining establishments, from casual and outdoor dining to upscale restaurants and catering operations. Chapters cover everything from training and hiring staff, preparation for service, and front-door hospitality to money handling, styles of modern table service, and the relationship between the front and back of the house. Foreword by restaurateur Danny Meyer, whose restaurants are legendary for their world-class service Respected industry-wide as a contemporary reference guide and refresher for foodservice professionals

Benford's Law Springer Nature

Vocal Technique: A Guide for Conductors, Teachers, and Singers is the first book to connect the disciplines of vocal pedagogy, vocal science, and choral technique. It fills a need for accurate, well-researched, and easy-to-read information on how to teach and learn singing in both solo and choral contexts. This concise yet comprehensive guidebook offers numerous, practical voice-building and problem-solving suggestions and exercises, as well as clear photographs and elegant illustrations. The authors thoroughly address important topics such as breathing, onset, resonance, vowel

modification, vibrato, register transitions, range extension, intonation, changing voices (both adolescent and aging), and vocal health. They integrate the perspectives of renowned artists, choral professionals, vocal pedagogues, and the latest in vocal science. This is a must-have for conductors, voice teachers, and music educators, and will benefit solo and choral singers of all ages and abilities.
Artificial Intelligence By Example ASCE Press

From memes to resumes, fairy tales to researched arguments, in a striking full-color visual design, The Bedford Book of Genres invites students to unpack how genres work in order to experiment with their own compositions. After capturing the imagination of instructors and students in its successful first edition, the second edition incorporates extensive reviewer feedback to better teach students the rhetorical analysis skills they need to read and compose in any situation. To start the text, the Guide now includes a new Part One that lays out the book's key concepts--rhetorical situation, the elements of a genre, and multimodal composing--and a substantially revised Part Two with examples arranged by academic, workplace, and public contexts. Throughout the text, Guided Readings provide opportunities to analyze the rhetorical situations and conventions of common public and academic genres, while Guided Process sections follow the decisions that five real students made as they worked in multiple genres and media. With a range of readings from short visual arguments to longer, more complex pieces, the Reader gives students a wealth of sources, models, and inspiration for their own compositions. Now available with Launchpad for The Bedford Book of Genres, the second edition offers a compelling digital option with a complete, interactive, assignable e-book.

WORLD ENERGY OUTLOOK 2018 JP Publications (WI)

Freshwater Ecology, Second Edition, is a broad, up-to-date treatment of everything from the basic chemical and physical properties of water to advanced unifying concepts of the community ecology and ecosystem relationships as found in continental waters. With 40% new and expanded coverage, this text covers applied and basic aspects of limnology, now with more emphasis on wetlands and reservoirs than in the previous edition. It features 80 new and updated figures, including a section of color plates, and 500 new and updated references. The authors take a synthetic approach to ecological problems, teaching students how to handle the challenges faced by contemporary aquatic scientists. This text is designed for undergraduate students taking courses in Freshwater Ecology and Limnology; and introductory graduate students taking courses in Freshwater Ecology and Limnology. Expanded revision of Dodds' successful text. New boxed sections provide more advanced material within the introductory, modular format of the first edition. Basic scientific concepts and environmental applications featured throughout. Added coverage of climate change, ecosystem function, hypertrophic habitats and secondary production. Expanded coverage of physical limnology, groundwater and wetland habitats. Expanded coverage of the toxic effects of pharmaceuticals and endocrine disruptors as freshwater pollutants More on aquatic invertebrates, with more images and pictures of a broader range of organisms Expanded coverage of the functional roles of filterer feeding, scraping, and shredding organisms, and a new section on omnivores. Expanded appendix on standard statistical techniques. Supporting website with figures and tables - <http://www.elsevierdirect.com/companion.jsp?ISBN=9780123747242>

Advances in FDTD Computational Electrodynamics Springer Science & Business Media

Principles of Asynchronous Circuit Design Springer Science & Business Media

FUNDAMENTALS OF SOFTWARE ENGINEERING, FIFTH EDITION MDPI

This book, like its first edition, addresses the fundamental principles of interaction between radiation and matter and the principle of particle detectors in a wide scope of fields, from low to high energy, including space physics and the medical environment. It provides abundant information about the processes of electromagnetic and hadronic energy deposition in matter, detecting systems, and performance and optimization of detectors.

Java Foundations Springer

Take advantage of today's sky-high demand for data engineers. With this in-depth book, current and aspiring engineers will learn powerful real-world best practices for managing data big and small. Contributors from notable companies including Twitter, Google, Stitch Fix, Microsoft, Capital One, and LinkedIn share their experiences and lessons learned for overcoming a variety of specific and often nagging challenges. Edited by Tobias Macey, host of the popular Data Engineering Podcast, this book presents 97 concise and useful tips for cleaning, prepping, wrangling, storing, processing, and ingesting data. Data engineers, data architects, data team managers, data scientists, machine learning engineers, and software engineers will greatly benefit from the wisdom and experience of their peers. Topics include: The Importance of Data Lineage - Julien Le Dem Data Security for Data Engineers - Katharine Jarmul The Two Types of Data Engineering and Data Engineers - Jesse Anderson Six Dimensions for Picking an Analytical Data Warehouse - Gleb Mezhanskiy The End of ETL as We Know It - Paul Singman Building a Career as a Data Engineer - Vijay Kiran Modern Metadata for the Modern Data Stack - Prukalpa Sankar Your Data Tests Failed! Now What? - Sam Bail [Architecture of Computing Systems - ARCS 2009](#) Springer Science & Business Media MOP 70 is a comprehensive reference to estimating the water quantities needed for irrigation of crops projects based upon the physics of evaporation and evapotranspiration (ET).

97 THINGS EVERY DATA ENGINEER SHOULD KNOW

McGraw Hill Professional

This book constitutes the refereed proceedings of the 22nd International Conference on Architecture of Computing Systems, ARCS 2009, held in Delft, The Netherlands, in March 2009. The 21 revised full papers presented together with 3 keynote papers were carefully reviewed and selected from 57 submissions. This year's special focus is set on energy awareness. The papers are organized in topical sections on compilation technologies, reconfigurable hardware and applications, massive parallel architectures, organic computing, memory architectures, energy awareness, Java processing, and chip-level multiprocessing.

Evaporation, Evapotranspiration, and Irrigation Water Requirements John Wiley & Sons

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Power quality problems have increasingly become a substantial concern over the last decade, but surprisingly few analytical techniques have been developed to overcome these disturbances in system-equipment interactions. Now in this comprehensive book, power engineers and students can find the theoretical background necessary for understanding how to analyze, predict, and mitigate the two most severe power disturbances: voltage sags and interruptions. This is the first book to offer in-depth analysis of voltage sags and interruptions and to show how to apply mathematical techniques for practical solutions to these disturbances. From UNDERSTANDING AND SOLVING POWER QUALITY PROBLEMS you will gain important insights into Various types of power quality phenomena and power quality standards Current methods for power system reliability evaluation Origins of voltage sags and interruptions Essential analysis of voltage sags for characterization and prediction of equipment behavior and stochastic prediction Mitigation methods against voltage sags and interruptions Sponsored by: IEEE Power Electronics Society, IEEE Industry Applications Society, IEEE Power Engineering Society.

Electrical Characteristics of Transmission Circuits Springer

Advances in photonics and nanotechnology have the potential to revolutionize humanity's ability to communicate and compute. To pursue these advances, it is mandatory to understand and properly model interactions of light with materials such as silicon and gold at the nanoscale, i.e., the span of a few tens of atoms laid side by side. These interactions are governed by the fundamental Maxwell's equations of classical electrodynamics, supplemented by quantum electrodynamics. This book presents the current state-of-the-art in formulating and implementing computational models of these interactions. Maxwell's equations are solved using the finite-difference time-domain (FDTD) technique, pioneered by the senior editor, whose prior Artech House books in this area are among the top ten most-cited in the history of engineering. This cutting-edge resource helps readers understand the latest developments in computational modeling of nanoscale optical microscopy and microchip lithography, as well as nanoscale plasmonics and biophotonics.

Remote Sensing of Evapotranspiration (ET) PHI Learning Pvt. Ltd.

Winner of the Summerfield Book Award Winner of the Aviation-Space Writers Association Award of Excellence. --Over 30,000 copies sold, consistently the top-selling AIAA textbook title This highly regarded textbook presents the entire process of aircraft conceptual design from requirements definition to initial sizing, configuration layout, analysis, sizing, and trade studies in the same manner seen in industry aircraft design groups. Interesting and easy to read, the book has more than 800 pages of design methods, illustrations, tips, explanations, and equations, and extensive appendices with key data essential to design. It is the required design text at numerous universities around the world, and is a favorite of practicing design engineers.