C In Depth Srivastava

C - In Depth - 2Nd Revised EditionSoil Management and Climate ChangeC# in Depth, 3rd EditionData Structures Through C In DepthOpen-Channel FlowFunctional and Shape Data Analysis3D Face Modeling, Analysis and RecognitionData Structures Using CHead First CComprehensive BiotechnologyC++Exploring CC# in DepthHandbook of Positive EmotionsShipboard Propulsion, Power Electronics, and Ocean EnergyThe Himalayan Cryosphere:Clutches and BrakesBeginning C# Game ProgrammingFlow Through Open ChannelsPointers on CC IN DepthA Complete Guide to Programming in C++Plant Transformation TechnologiesSurgery of the Skin E-BookNutraceuticals and Dietary SupplementsProgramming in Objective-CC- In DepthComputational Intelligence for Machine Learning and Healthcare InformaticsThe Physics of PhononsMolecular Markers, Natural History and EvolutionOptically Amplified WDM NetworksFLAC and Numerical Modeling in Geomechanics - 2001Large-Scale Machine Learning in the Earth SciencesText MiningHeterocycles via Cross Dehydrogenative CouplingData Structures Through CPlant Growth and DevelopmentHandbook of Image and Video ProcessingDepth Map and 3D Imaging Applications: Algorithms and TechnologiesOpen Data Structures

C - In Depth - 2Nd Revised Edition

This textbook for courses on function data analysis and shape data analysis describes how to define, compare, and mathematically represent shapes, with a focus on statistical modeling and inference. It is aimed at graduate students in analysis in statistics, engineering, applied mathematics, neuroscience, biology, bioinformatics, and other related areas. The interdisciplinary nature of the broad range of ideas covered—from introductory theory to algorithmic implementations and some statistical case studies—is meant to familiarize graduate students with an array of tools that are relevant in developing computational solutions for shape and related analyses. These tools, gleaned from geometry, algebra, statistics, and computational science, are traditionally scattered across different courses, departments, and disciplines; Functional and Shape Data Analysis offers a unified, comprehensive solution by integrating the registration problem into shape analysis, better preparing graduate students for handling future scientific challenges. Recently, a data-driven and application-oriented focus on shape analysis has been trending. This text offers a self-contained treatment of this new generation of methods in shape analysis of curves. Its main focus is shape analysis of functions and curves—in one, two, and higher dimensions—both closed and open. It develops elegant Riemannian frameworks that provide both quantification of shape differences and registration of curves at the same time. Additionally, these methods are used for statistically summarizing given curve data, performing dimension reduction, and modeling observed variability. It is recommended that

the reader have a background in calculus, linear algebra, numerical analysis, and computation.

Soil Management and Climate Change

This book presents a variety of techniques designed to enhance and empower multi-disciplinary and multi-institutional machine learning research in healthcare informatics. It is intended to provide a unique compendium of current and emerging machine learning paradigms for healthcare informatics, reflecting the diversity, complexity, and depth and breadth of this multi-disciplinary area.

C# in Depth, 3rd Edition

Open Channel Flow, 2nd edition is written for senior-level undergraduate and graduate courses on steady and unsteady open-channel flow. The book is comprised of two parts: Part I covers steady flow and Part II describes unsteady flow. The second edition features considerable emphasis on the presentation of modern methods for computer analyses; full coverage of unsteady flow; inclusion of typical computer programs; new problem sets and a complete solution manual for instructors.

Data Structures Through C In Depth

The second edition of Comprehensive Biotechnology continues the tradition of the first inclusive work on this dynamic field with up-to-date and essential entries on the principles and practice of biotechnology. The integration of the latest relevant science and industry practice with fundamental biotechnology concepts is presented with entries from internationally recognized world leaders in their given fields. With two volumes covering basic fundamentals, and four volumes of applications, from environmental biotechnology and safety to medical biotechnology and healthcare, this work serves the needs of newcomers as well as established experts combining the latest relevant science and industry practice in a manageable format. It is a multi-authored work, written by experts and vetted by a prestigious advisory board and group of volume editors who are biotechnology innovators and educators with international influence. All six volumes are published at the same time, not as a series; this is not a conventional encyclopedia but a symbiotic integration of brief articles on established topics and longer chapters on new emerging areas. Hyperlinks provide sources of extensive additional related information; material authored and edited by world-renown experts in all aspects of the broad multidisciplinary field of biotechnology Scope and nature of the work are vetted by a prestigious International Advisory Board including three Nobel laureates Each article carries a glossary and a professional summary of the authors indicating their appropriate credentials An extensive index

for the entire publication gives a complete list of the many topics treated in the increasingly expanding field

Open-Channel Flow

This guide was written for readers interested in learning the C++ programming language from scratch, and for both novice and advanced C++ programmers wishing to enhance their knowledge of C++. The text is organized to guide the reader from elementary language concepts to professional software development, with in depth coverage of all the C++ language elements en route.

Functional and Shape Data Analysis

This book provides current information on synthesis of plant hormones, how their concentrations are regulated, and how they modulate various plant processes. It details how plants sense and tolerate such factors as drought, salinity, and cold temperature, factors that limit plant productivity on earth. It also explains how plants sense two other environmental signals, light and gravity, and modify their developmental patterns in response to those signals. This book takes the reader from basic concepts to the most up-to-date thinking on these topics. * Provides clear synthesis and review of hormonal and environmental regulation of plant

growth and development * Contains more than 600 illustrations supplementary information on techniques and/or related topics of interest * Single-authored text provides uniformity of presentation and integration of the subject matter * References listed alphabetically in each section

3D Face Modeling, Analysis and Recognition

3D Face Modeling, Analysis and Recognition presentsmethodologies for analyzing shapes of facial surfaces, developscomputational tools for analyzing 3D face data, and illustratesthem using state-of-the-art applications. The methodologies chosenare based on efficient representations, metrics, comparisons, andclassifications of features that are especially relevant in thecontext of 3D measurements of human faces. These frameworks have along-term utility in face analysis, taking into account theanticipated improvements in data collection, data storage,processing speeds, and application scenarios expected as thediscipline develops further. The book covers face acquisition through 3D scanners and 3D facepre-processing, before examining the three main approaches for 3Dfacial surface analysis and recognition: facial curves; facialsurface features; and 3D morphable models. Whilst the focus ofthese chapters is fundamentals and methodologies, the algorithmsprovided are tested on facial biometric data, thereby continuallyshowing how the methods can be applied. Key features: • Explores the underlying mathematics and will apply thesemathematical techniques to 3D face

analysis and recognition • Provides coverage of a wide range of applications includingbiometrics, forensic applications, facial expression analysis, andmodel fitting to 2D images • Contains numerous exercises and algorithms throughout thebook

Data Structures Using C

Shipboard Propulsion, Power Electronics, and Ocean Energy fills the need for a comprehensive book that covers modern shipboard propulsion and the power electronics and ocean energy technologies that drive it. With a breadth and depth not found in other books, it examines the power electronics systems for ship propulsion and for extracting ocean energy, which are mirror images of each other. Comprised of sixteen chapters, the book is divided into four parts: Power Electronics and Motor Drives explains basic power electronics converters and variable-frequency drives, cooling methods, and quality of power Electric Propulsion Technologies focuses on the electric propulsion of ships using recently developed permanent magnet and superconducting motors, as well as hybrid propulsion using fuel cell, photovoltaic, and wind power Renewable Ocean Energy Technologies explores renewable ocean energy from waves, marine currents, and offshore wind farms System Integration Aspects discusses two aspects—energy storage and system reliability—that are essential for any large-scale power system This timely book evolved from the author's 30 years of work experience at General

Electric, Lockheed Martin, and Westinghouse Electric and 15 years of teaching at the U.S. Merchant Marine Academy. As a textbook, it is ideal for an elective course at marine and naval academies with engineering programs. It is also a valuable reference for commercial and military shipbuilders, port operators, renewable ocean energy developers, classification societies, machinery and equipment manufacturers, researchers, and others interested in modern shipboard power and propulsion systems. The information provided herein does not necessarily represent the view of the U.S. Merchant Marine Academy or the U.S. Department of Transportation. This book is a companion to Shipboard Electrical Power Systems (CRC Press, 2011), by the same author.

Head First C

The Himalaya mountains contain not only one of the largest concentrations of ice outside the polar regions, but contribute to the hydrological requirements of large populations spread over seven nations. The exceptionally high elevations of this low-latitude cryosphere presents a natural laboratory and archives to study climate–tectonics interactions as well as regional v. global climate influences. The existing base-level data on the Himalayan cryosphere are highly variable. Several climate fluctuations occurred during the late Quaternary (MIS1–MIS5, especially the last c. 100 ka), which led to the evolution of the Himalayan landscape. Detailed studies of these archives, along with those of the present cryosphere and related

hydrosphere, are essential for understanding the controls on present and future hydrology of the glacial-fed mountain rivers. This volume, a follow-up of the XII International Symposium on Antarctic Earth Science, Goa (A SCAR symposium), provides new data from locales spread over the entire Himalaya region and from Tibet. It provides a glimpse of the late Quaternary cryosphere, as well as a discussion in the last section on sustainability in the context of geohazard mitigations as well as the hydrological budget.

Comprehensive Biotechnology

Are you ready to try your hand at programming games using C#? "Beginning C# Game Programming" is your ideal introductory guidedesigned to jumpstart your experience with C# and DirectX 9. It includes the fundamental topics youll need to know and covers additional topics that youll find helpful along the way. Begin with a comprehensive look at programming with C#from the basics of classes to advanced topics such as polymorphism and abstraction. Then its on to DirectX 9 as you learn how to create a basic framework and a Direct3D device. Youll also cover DirectSound and DirectInput. Put your newfound knowledge to the test as you program a complete game!

C++

This authoritative handbook reviews the breadth of current knowledge about positive emotions: their nature, functions, and consequences for individuals and society. Specific emotions are analyzed in depth, including happiness, pride, romantic love, compassion, gratitude, awe, challenge, and hope. Major theoretical perspectives are presented and cutting-edge research methods explained. The volume addresses neurobiological and physiological aspects of positive emotions as well as their social and intrapersonal contexts. Implications for physical health, coping, and psychopathology are explored, as are connections to organizational functioning and consumer behavior.

Exploring C

C# in Depth

Handbook of Positive Emotions

Plant Transformation Technologies is a comprehensive, authoritative book focusing on cutting-edge plant biotechnologies, offering in-depth, forward-looking information on methods for controlled and accurate genetic engineering. In

response to ever-increasing pressure for precise and efficient integration of transgenes in plants, many new technologies have been developed. With complete coverage of these technologies, Plant Transformation Technologies provides valuable insight on current and future plant transformation technologies. With twenty-five chapters written by international experts on transformation technologies, the book includes new information on Agrobacterium, targeting transgenes into plant genomes, and new vectors and market systems. Including both review chapters and protocols for transformation, Plant Transformation Technologies is vitally important to graduate students, postdoctoral students, and university and industry researchers.

Shipboard Propulsion, Power Electronics, and Ocean Energy

Soil Management and Climate Change: Effects on Organic Carbon, Nitrogen Dynamics, and Greenhouse Gas Emissions provides a state of the art overview of recent findings and future research challenges regarding physical, chemical and biological processes controlling soil carbon, nitrogen dynamic and greenhouse gas emissions from soils. This book is for students and academics in soil science and environmental science, land managers, public administrators and legislators, and will increase understanding of organic matter preservation in soil and mitigation of greenhouse gas emissions. Given the central role soil plays on the global carbon (C) and nitrogen (N) cycles and its impact on greenhouse gas emissions, there is

an urgent need to increase our common understanding about sources, mechanisms and processes that regulate organic matter mineralization and stabilization, and to identify those management practices and processes which mitigate greenhouse gas emissions, helping increase organic matter stabilization with suitable supplies of available N. Provides the latest findings about soil organic matter stabilization and greenhouse gas emissions Covers the effect of practices and management on soil organic matter stabilization Includes information for readers to select the most suitable management practices to increase soil organic matter stabilization

The Himalayan Cryosphere:

Description:The Book explains each topic in depth without compromising the lucidity of the text and programs. This approach makes this book suitable for both novices and advanced programmers; the well-structured programs are easily understandable by the beginners and useful for the experienced programmers. The book can be used as tool for self-study as it provides step by step explanation and comes with solutions of all exercises. It explains all the basic concepts and doesn't assume that you know how to program. New features in the 3rd edition include a chapter on Recursion, through explanation of Bitwise Manipulation, new and improved programming examples, lots of new exercises ranging in difficulty, solutions to all the exercises and a CD that includes the code of all the

programming examples and exercises. The book contains about 310 well explained programming examples to drive the concepts home and nearly 450 exercises which include many interesting and challenging programming exercises that will help you to sharpen your programming skill. The chapter on project development and library creation can help students in implementing their knowledge.Table Of Contents:Chapter 1 : IntroductionChapter 2 : Elements of CChapter 3 : Input-Output in CChapter 4 : Operators and ExpressionsChapter 5 : Control StatementsChapter 6 : FunctionsChapter 7 : RecursionChapter 8 : ArrasChapter 9 : PointersChapter 10 : StringsChapter 11 : Structure and UnionChapter 12 : FilesChapter 13 : The C PreprocessorChapter 14 : Operations on BitsChapter 15 : Miscellaneous Features Chapter 16 : Building Project and Creation of LibraryChapter 17 : Code Optimization in CChapter 18 : C and Assembly InteractionChapter 19 : Library FunctionsSolutions

Clutches and Brakes

This second edition of Data Structures Using C has been developed to provide a comprehensive and consistent coverage of both the abstract concepts of data structures as well as the implementation of these concepts using C language. It begins with a thorough overview of the concepts of C programming followed by introduction of different data structures and methods to analyse the complexity of different algorithms. It then connects these concepts and applies them to the study

of various data structures such as arrays, strings, linked lists, stacks, queues, trees, heaps, and graphs. The book utilizes a systematic approach wherein the design of each of the data structures is followed by algorithms of different operations that can be performed on them, and the analysis of these algorithms in terms of their running times. Each chapter includes a variety of end-chapter exercises in the form of MCQs with answers, review questions, and programming exercises to help readers testtheir knowledge.

Beginning C# Game Programming

There have been few books devoted to the study of phonons, a major area of condensed matter physics. The Physics of Phonons is a comprehensive theoretical discussion of the most important topics, including some topics not previously presented in book form. Although primarily theoretical in approach, the author refers to experimental results wherever possible, ensuring an ideal book for both experimental and theoretical researchers. The author begins with an introduction to crystal symmetry and continues with a discussion of lattice dynamics in the harmonic approximation, including the traditional phenomenological approach and the more recent ab initio approach, detailed for the first time in this book. A discussion of anharmonicity is followed by the theory of lattice thermal conductivity, presented at a level far beyond that available in any other book. The chapter on phonon interactions is likewise more comprehensive than any similar

discussion elsewhere. The sections on phonons in superlattices, impure and mixed crystals, quasicrystals, phonon spectroscopy, Kapitza resistance, and quantum evaporation also contain material appearing in book form for the first time. The book is complemented by numerous diagrams that aid understanding and is comprehensively referenced for further study. With its unprecedented wide coverage of the field, The Physics of Phonons will be indispensable to all postgraduates, advanced undergraduates, and researchers working on condensed matter physics.

Flow Through Open Channels

C++ Sale price. You will save 66% with this offer. Please hurry up! Effective Modern C++(C++ 11, C++ 14) If you are a programmer or looking to get into programming, you are probably wondering what C++11 and C++ 14 have to offer. You're probably wondering about their major differences and ultimately what it can do to help you code more effectively. This book is here to provide that information. C++11 and C++14 have made significant changes to improve not only a variety of libraries but also the core language. C++14 is the newest version of C++ which was released in August of 2014. Improvements in this version made the language not only convenient to use but also safer. This guide will provide more than just information. This guide will provide information on how the language has changed, how you can use it and examples of putting it all together in practice. This book

will also provide details various problems and how to solve them from a C++11 and C++14 perspective. Use this book as your reference guide for some of the major features within C++11 and C++14. Here is a preview of what you'll learn: Multithreading support Generic programming support Uniform initialization Performance C++ Standard Library Download your copy of "C++" by scrolling up and clicking "Buy Now With 1-Click" button. Tags: C Programming, C++programming, C++ programming language, HTML, Javascript, Programming, Developers, Coding, CSS, Java, PHP, C++, Javascript, PHP, Python, Sql, HTML, Swift, C++, C Programming, Programming for beginners, c plus plus, PHP, Java, C++ Programming for Beginners, c primer plus, C Programming for Beginners, C++, C Programming, Programming for beginners, c plus plus, PHP, Java, C++ Programming for Beginners, C Programming, C++programming, C++ programming language, HTML, Javascript, Programming, Developers, Coding, CSS, Java, PHP, hackers, hacking, how to hack, hacking exposed, hacking system, hacking 101, hacking for dummies, Hacking Guide, Hacking Essentials, Computer Bugs, Security Breach, internet skills, hacking techniques, computer hacking, hacking the system, web hacking, how to hack

Pointers on C

Over the last decade, significant progress has been made in 3D imaging research. As a result, 3D imaging methods and techniques are being employed for various

applications, including 3D television, intelligent robotics, medical imaging, and stereovision. Depth Map and 3D Imaging Applications: Algorithms and Technologies present various 3D algorithms developed in the recent years and to investigate the application of 3D methods in various domains. Containing five sections, this book offers perspectives on 3D imaging algorithms, 3D shape recovery, stereoscopic vision and autostereoscopic vision, 3D vision for robotic applications, and 3D imaging applications. This book is an important resource for professionals, scientists, researchers, academics, and software engineers in image/video processing and computer vision.

C IN Depth

Master the latest medical and cosmetic procedures with Surgery of the Skin, the most comprehensive dermatological surgery resource available. Written from the surgeon's perspective, this medical reference book features step-by-step guidance on performing the most updated developments and cutting edge approaches across the entire spectrum of dermatologic surgery. Improve surgical results and avoid pitfalls with expert, evidence-based guidance. Stay on the cutting edge with in-depth step-by-step descriptions of tumescent vertical vector facelifts, blepharoplasty, composite grafts, Botox treatments, soft tissue augmentation, management of dysplastic nevi and melanoma, and more. View immersive videos from an expanded library with more than 130 clips totaling over six hour's footage.

Explore brand-new chapters on rejuvenation of the female external genitalia; hidradenitis suppurativa; and photoaging-related mottled pigmentation. Improve treatment outcomes for patients with skin of color and gain a truly global perspective of dermatologic surgery through an expanded contributor group of leading international experts. Master how to perform cutting-edge techniques across the entire spectrum of dermatologic surgery, including botulinum toxins; fillers; cryosurgery; flaps; grafting; scar revisions; lasers; face-lift techniques; blepharoplasty techniques; Mohs surgery; and more. Effectively manage a full range of complex disorders, such as vitiligo surgery, keloids, and leg ulcers, with a unique section devoted to these special procedures. Easily visualize complex procedures and concepts with more than 1,000 illustrations, photos, and graphics. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability.

A Complete Guide to Programming in C++

A guide to the key topics of C# covers such topics as lambda expressions, LINQ, generics, nullable types, iterators, and extension methods.

Plant Transformation Technologies

55% new material in the latest edition of this "must-have for students and practitioners of image & video processing! This Handbook is intended to serve as the basic reference point on image and video processing, in the field, in the research laboratory, and in the classroom. Each chapter has been written by carefully selected, distinguished experts specializing in that topic and carefully reviewed by the Editor, Al Bovik, ensuring that the greatest depth of understanding be communicated to the reader. Coverage includes introductory, intermediate and advanced topics and as such, this book serves equally well as classroom textbook as reference resource. • Provides practicing engineers and students with a highly accessible resource for learning and using image/video processing theory and algorithms • Includes a new chapter on image processing education, which should prove invaluable for those developing or modifying their curricula • Covers the various image and video processing standards that exist and are emerging, driving today's explosive industry • Offers an understanding of what images are, how they are modeled, and gives an introduction to how they are perceived • Introduces the necessary, practical background to allow engineering students to acquire and process their own digital image or video data • Culminates with a diverse set of applications chapters, covered in sufficient depth to serve as extensible models to the reader's own potential applications About the Editor Al Bovik is the Cullen Trust for Higher Education Endowed Professor at The University of Texas at Austin, where he is the Director of the Laboratory for Image and Video Engineering (LIVE). He has published over 400 technical articles in the general area of image and

video processing and holds two U.S. patents. Dr. Bovik was Distinguished Lecturer of the IEEE Signal Processing Society (2000), received the IEEE Signal Processing Society Meritorious Service Award (1998), the IEEE Third Millennium Medal (2000), and twice was a two-time Honorable Mention winner of the international Pattern Recognition Society Award. He is a Fellow of the IEEE, was Editor-in-Chief, of the IEEE Transactions on Image Processing (1996-2002), has served on and continues to serve on many other professional boards and panels, and was the Founding General Chairman of the IEEE International Conference on Image Processing which was held in Austin, Texas in 1994. * No other resource for image and video processing contains the same breadth of up-to-date coverage * Each chapter written by one or several of the top experts working in that area * Includes all essential mathematics, techniques, and algorithms for every type of image and video processing used by electrical engineers, computer scientists, internet developers, bioengineers, and scientists in various, image-intensive disciplines

Surgery of the Skin E-Book

A collection of 54 papers selected for presentation at the 2nd FLAC Symposium. The contributions cover a wide range of topics from engineering applications to theoretical developments in the areas of embankment and slope stability, mining, tunnelling, and soil and structure interaction.

Nutraceuticals and Dietary Supplements

Pointers On C brings the power of pointers to your C programs. Designed for professionals and advanced students, Pointers on C provides a comprehensive resource for those needing in-depth coverage of the C programming language. An extensive explanation of pointer basics and a thorough exploration of their advanced features allows programmers to incorporate the power of pointers into their C programs. Complete coverage, detailed explanations of C programming idioms, and thorough discussion of advanced topics makes Pointers on C a valuable tutorial and reference for students and professionals alike.Highlights: Provides complete background information needed for a thorough understanding of C. Covers pointers thoroughly, including syntax, techniques for their effective use and common programming idioms in which they appear. Compares different methods for implementing common abstract data structures. Offers an easy, conversant writing style to clearly explain difficult topics, and contains numerous illustrations and diagrams to help visualize complex concepts. Includes Programming Tips, discussing efficiency, portability, and software engineering issues, and warns of common pitfalls using Caution! Sections. Describes every function on the standard C library. 0673999866B04062001

Programming in Objective-C

From the Foreword: "While large-scale machine learning and data mining have greatly impacted a range of commercial applications, their use in the field of Earth sciences is still in the early stages. This book, edited by Ashok Srivastava, Ramakrishna Nemani, and Karsten Steinhaeuser, serves as an outstanding resource for anyone interested in the opportunities and challenges for the machine learning community in analyzing these data sets to answer questions of urgent societal interestI hope that this book will inspire more computer scientists to focus on environmental applications, and Earth scientists to seek collaborations with researchers in machine learning and data mining to advance the frontiers in Earth sciences." --Vipin Kumar, University of Minnesota Large-Scale Machine Learning in the Earth Sciences provides researchers and practitioners with a broad overview of some of the key challenges in the intersection of Earth science, computer science, statistics, and related fields. It explores a wide range of topics and provides a compilation of recent research in the application of machine learning in the field of Earth Science. Making predictions based on observational data is a theme of the book, and the book includes chapters on the use of network science to understand and discover teleconnections in extreme climate and weather events, as well as using structured estimation in high dimensions. The use of ensemble machine learning models to combine predictions of global climate models using information from spatial and temporal patterns is also explored. The second part of the book features a discussion on statistical downscaling in climate with state-of-the-art scalable machine learning, as well as an overview of methods to understand and

predict the proliferation of biological species due to changes in environmental conditions. The problem of using large-scale machine learning to study the formation of tornadoes is also explored in depth. The last part of the book covers the use of deep learning algorithms to classify images that have very high resolution, as well as the unmixing of spectral signals in remote sensing images of land cover. The authors also apply long-tail distributions to geoscience resources, in the final chapter of the book.

C- In Depth

Molecular approaches have opened new windows on a host of ecological and evolutionary disciplines, ranging from population genetics and behavioral ecology to conservation biology and systematics. Molecular Markers, Natural History and Evolution summarizes the multi-faceted discoveries about organisms in nature that have stemmed from analyses of genetic markers provided by polymorphic proteins and DNAs. The first part of the book introduces rationales for the use of molecular markers, provides a history of molecular phylogenetics, and describes a wide variety of laboratory methods and interpretative tools in the field. The second and major portion of the book provides a cornucopia of biological applications for molecular markers, organized along a scale from micro-evolutionary topics (such as forensics, parentage, kinship, population structure, and intra-specific phylogeny) to macro-evolutionary themes (including species relationships and the deeper

phylogenetic structure in the tree of life). Unlike most prior books in molecular evolution, the focus is on organismal natural history and evolution, with the macromolecules being the means rather than the ends of scientific inquiry. Written as an intellectual stimulus for the advanced undergraduate, graduate student, or the practicing biologist desiring a wellspring of research ideas at the interface of molecular and organismal biology, this book presents material in a manner that is both technically straightforward, yet rich with concepts and with empirical examples from the world of nature.

Computational Intelligence for Machine Learning and Healthcare Informatics

The Definitive Resource on Text Mining Theory and Applications from Foremost Researchers in the Field Giving a broad perspective of the field from numerous vantage points, Text Mining: Classification, Clustering, and Applications focuses on statistical methods for text mining and analysis. It examines methods to automatically cluster and classify text documents and applies these methods in a variety of areas, including adaptive information filtering, information distillation, and text search. The book begins with chapters on the classification of documents into predefined categories. It presents state-of-the-art algorithms and their use in practice. The next chapters describe novel methods for clustering documents into

groups that are not predefined. These methods seek to automatically determine topical structures that may exist in a document corpus. The book concludes by discussing various text mining applications that have significant implications for future research and industrial use. There is no doubt that text mining will continue to play a critical role in the development of future information systems and advances in research will be instrumental to their success. This book captures the technical depth and immense practical potential of text mining, guiding readers to a sound appreciation of this burgeoning field.

The Physics of Phonons

Addressing the increasing popularity of nutraceuticals, dietary supplements, and functional foods, this comprehensive and timely book presents an abundance of information on herbal products and their applications. The chapter authors—highly skilled, experienced, and renowned scientists and researchers from around the globe—offer up-to-date knowledge on the uses of herbal products in health management, in cancer treatment, in mental health therapy, and more. Nutraceuticals and Dietary Supplements: Advances and Applications begins with an introduction, the nomenclature, and characteristics of nutraceuticals and goes on to discuss in-depth applications for specific health issues, including cancer, diabetes, Alzheimer's disease, alcoholism, and more. It also looks at the pros and cons as well as the analytical techniques used for the production of nutraceuticals.

Chapters cover market size, regulatory perspectives, manufacturing, and in silico drug design. The book incorporates a wide diversity of case studies, research, and theories pertaining to natural products employed by developers and content experts in the field.

Molecular Markers, Natural History and Evolution

Learn key topics such as language basics, pointers and pointer arithmetic, dynamic memory management, multithreading, and network programming. Learn how to use the compiler, the make tool, and the archiver.

Optically Amplified WDM Networks

This book is written in very simple manner and is very easy to understand. It describes the theory with examples step by step. It contains the description of writing these steps in programs in very easy and understandable manner. The book gives full understanding of each therotical topic and easy implementaion in programming. This book will help the students in Self-Learning of Data structures and in understanding how these concepts are implemented in programs. This book is useful for any level of students. It covers the syllabus of B.E. ,B.Tech, DOEACC Society, IGNOU.

FLAC and Numerical Modeling in Geomechanics - 2001

C# is a general purpose, object-oriented, component-based programming language. As a general purpose language, there are a number of ways to apply C# to accomplish many different tasks. You can build web applications with ASP.NET, desktop applications with Windows Presentation Foundation, or build mobile applications for Windows Phone. Other applications include code that runs in the cloud via Windows Azure, and iOS, Android, and Windows Phone support with the Xamarin platform. With C# by Joe Mayo, you will quickly learn the syntax you need to build your own C# applications. This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business.

Large-Scale Machine Learning in the Earth Sciences

Text Mining

Experience Data Structures C through animations DESCRIPTION There are two major hurdles faced by anybody trying to learn Data Structures: Most books attempt to teach it using algorithms rather than complete working programs A lot is left to the imagination of the reader, instead of explaining it in detail. This is a different Data Structures book. It uses a common language like C to teach Data Structures. Secondly, it goes far beyond merely explaining how Stacks, Queues, and Linked Lists work. The readers can actually experience (rather than imagine) sorting of an array, traversing of a doubly linked list, construction of a binary tree, etc. through carefully crafted animations that depict these processes. All these animations are available on the downloadable DVD. In addition it contains numerous carefully-crafted figures, working programs and real world scenarios where different data structures are used. This would help you understand the complicated operations being performed an different data structures easily. Add to that the customary lucid style of Yashavant Kanetkar and you have a perfect Data Structures book in your hands. KEY FEATURES Strengthens the foundations, as detailed explanation of concepts are given Focuses on how to think logically to solve a problem Algorithms used in the book are well explained and illustrated step by step. Help students in understanding how data structures are implemented in programs WHAT WILL YOU LEARN Analysis of Algorithms, Arrays, Linked Lists, Sparse Matrices Stacks, Queues, Trees, Graphs, Searching and Sorting WHO THIS

BOOK IS FOR Students, Programmers, researchers, and software developers who wish to learn the basics of Data structures. Table of Contents 1. Analysis of Algorithms 2. Arrays 3. Linked Lists 4. Sparse Matrices 5. Stacks 6. Queues

Heterocycles via Cross Dehydrogenative Coupling

Conveniently gathering formulas, analytical methods, and graphs for the design and selection of a wide variety of brakes and clutches in the automotive, aircraft, farming, and manufacturing industries, Clutches and Brakes: Design and Selection, Second Edition simplifies calculations, acquaints engineers with an expansive range of application, and a

Data Structures Through C

With the advent of wavelength routing and dynamic, reconfigurable optical networks, new demands are being made in the design and operation of optical amplifiers. This book provides, for the first time, a comprehensive review of optical amplifier technology in the context of these recent advances in the field. It demonstrates how to manage the trade-offs between amplifier design, network architecture and system management and operation. The book provides an overview of optical amplifiers and reconfigurable networks before examining in

greater detail the issues of importance to network operators and equipment manufacturers, including 40G and 100G transmission. Optical amplifier design is fully considered, focusing on fundamentals, design solutions and amplifier performance limitations. Finally, the book discusses other emerging applications for optical amplifiers such as optical networks for high data rate systems, free space systems, long single span links and optical digital networks. This book will be of great value to R&D engineers, network and systems engineers, telecommunications service providers, component suppliers, industry analysts, network operators, postgraduate students, academics and anyone seeking to understand emerging trends in optical networks and the consequent changes in optical amplifier design, features and applications. Provides an in depth and focused review of the new reconfigurable network architecture and its impact on optical amplifiers Addresses 40G and 100G transmission and networking Written by experts in the field with deep technical knowledge and practical experience of commercial practice and concerns

Plant Growth and Development

Designed to serve as a textbook for students pursuing a BTech or BE program in civil engineering, the book aims to impart a clear understanding of the concepts of open channel hydraulics. The book would also be useful for postgraduate students of civil engineering and practising engineers. Beginning with an introductory

chapter that classifies the flow into various categories, Flow Through Open Channels describes uniform flow, gradually varied flow, and rapid varied flow in great detail. The subsequent chapters provide a comprehensive coverage of channel transitions, spartially varied flow, and unsteady flow. A simplified introductory description of important topics such as flow in mobile bed channels and pollutant transport in open channels has also been included in the text. Solved examples with emphasis on numerical or approximate methods have been liberally used to explain the practical application of concepts learnt. Practice problems provided have been designed to enable the reader to apply his/her learning to a variety of situations and to urge the reader to think beyond the matter covered in the textbook. The lucid treatment in the book encourages self study and instills working knowledge of hydraulics in a student.

Handbook of Image and Video Processing

Presents an introduction to Objective-C, covering such topics as classes and objects, data types, program looping, inheritance, polymorphism, variables, memory management, and archiving.

Depth Map and 3D Imaging Applications: Algorithms and Technologies

This textbook teaches introductory data structures.

Open Data Structures

This book discusses the developments in the synthesis and functionalization of different heterocycles based on the formation of carbon-carbon (C-C) and carbon-heteroatom (C-X) bonds using cross-dehydrogenative coupling (CDC). Consisting of 13 chapters, the book systematically describes the advances in the synthesis and functionalization of nitrogen, oxygen, and sulfur-containing heterocycles. It also discusses the various mechanistic pathways to help readers gain an in-depth understanding of the CDC reactions of heterocycles. Lastly, in order to promote green chemistry, it addresses a range of metal-free CDC reactions of heterocycles – an area that has attracted significant attention in both academic and industrial research.

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