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David C. Kay, William Steinmetz

Java Programming for Spatial Sciences Jo Wood, 2002-05-16 The Java programming language has been one of the most exciting internet-friendly technologies to emerge in the last decade. Java Programming for Spatial Sciences introduces the subject to those who wish to use computers to handle information with a geographical element. The book introduces object-oriented modeling including key concepts such

Real World Adobe InDesign CC Olav Martin Kvern, David Blatner, Bob Bringhurst, 2014 Annotation The definitive InDesign resource allows you to produce great content for print or digital publishing. **InDesign Creative Cloud is an impressive update. This guide provides our most complete coverage of the new features for intermediate and advanced users, whether they're publishing to an iPad, mobile phone, or traditional print publication. *The book that the Adobe InDesign product team uses for their reference. *Authors Kvern/Blatner/Bringhurst are 'the InDesign experts.' All are visible and extremely active in the InDesign community. Sharpen your InDesign skills with this definitive resource created specifically for design professionals who need to layout out, proof, export, and publish pages with Adobe InDesign Creative Cloud. Complete coverage of InDesign CC's new features and enhancements includes: improved epub exporting, new font menus, ability to generate and edit high quality QR code graphics, new document dialog box with preview option, and much more. Real World Adobe InDesign is brimming with insightful advice, illustrations, and shortcuts that will have you quickly and professionally producing your work in no time. This is the book that experts open to find real answers to their questions about InDesign. It's written in a friendly, visual style that offers accurate information and creative inspiration for intermediate to expert users.

The Programming and Proof System ATES Armand Puccetti, 2013-11-11 Today, people use a large number of systems ranging in complexity from washing machines to international airline reservation systems. Computers are used in nearly all such systems: accuracy and security are becoming increasingly essential. The design of such computer systems should make use of development methods as systematic as those used in other engineering disciplines. A systematic development method must provide a way of writing specifications which are both precise and concise; it must also supply a way of relating design to specification. A concise specification can be achieved by restricting attention to what a system has to do: all considerations of implementation details are postponed. With computer systems, this is done by: 1) building an abstract model of the system -operations being specified by pre-and post-conditions; 2) defining languages by mapping program texts onto some collection of objects modeling the concepts of the system to be dealt with, whose meaning is understood; 3) defining complex data objects in terms of abstractions known from mathematics. This last topic, the use of abstract data types, pervades all work on specifications and is necessary in order to apply ideas to systems of significant complexity. The use of mathematics based notations is the best way to achieve precision. 1.1 ABSTRACT DATA TYPES, PROOF TECHNIQUES From a practical point of view, a solution to these three problems consists to introduce abstract data types in the programming languages, and to consider formal proof methods.

Characterization of advanced avalanche photodiodes for water vapor lidar receivers ,

Practical Numerical Algorithms for Chaotic Systems Thomas S. Parker, Leon Chua, 2012-12-06 One of the basic tenets of science is that deterministic systems are completely predictable-given the initial condition and the equations describing a system, the behavior of the system can be predicted for all time. The discovery of chaotic systems has eliminated this viewpoint. Simply put, a chaotic system is a deterministic system that exhibits random behavior. Though identified as a robust phenomenon only twenty years ago, chaos has almost certainly been encountered by scientists and engineers many times during the last century only to be dismissed as physical noise. Chaos is such a wide-spread phenomenon that it has now been reported in virtually every scientific discipline: astronomy, biology, biophysics, chemistry, engineering, geology, mathematics, medicine, meteorology, plasmas, physics, and even the social sciences. It is no coincidence that during the same two decades in which chaos has grown into an independent field of research, computers have permeated society. It is, in fact, the wide availability of inexpensive computing power that has spurred much of the research in chaotic dynamics. The reason is simple: the computer can calculate a solution of a nonlinear system. This is no small feat. Unlike linear systems, where closed-form solutions can be written in terms of the system's eigenvalues and eigenvectors, few nonlinear systems and virtually no chaotic systems possess closed-form solutions.

C++ Algorithms for Digital Signal Processing Paul Embree, Damon Danieli, 1998-11-13 Bring the power and flexibility of C++ to all your DSP applications The multimedia revolution has created hundreds of new uses for Digital Signal Processing, but most software guides have continued to focus on outdated languages such as FORTRAN and Pascal for managing new applications. Now C++ Algorithms for Digital Signal Processing applies object-oriented techniques to this growing field with software you can implement on your desktop PC. C++ Algorithms for Digital Signal Processing's programming methods can be used for applications as diverse as: Digital audio and video Speech and image processing Digital communications Radar, sonar, and ultrasound signal processing Complete coverage is provided, including: Overviews of DSP and C++ Hands-on study with dozens of exercises Extensive library of customizable source code Import and Export of Microsoft WAV and Matlab data files Multimedia professionals, managers, and even advanced hobbyists will appreciate C++ Algorithms for Digital Signal Processing as much as students, engineers, and programmers. It's the ideal bridge between programming and signal processing, and a valuable reference for experts in either field. Source code for all of the DSP programs and DSP data associated with the examples discussed in this book and Appendix B and the file README.TXT which provide more information about how to compile and run the programs can be downloaded from www.informit.com/title/9780131791442

Vector Graphics and Illustration Jack Harris, Steven Withrow, 2008 A highly illustrated and practical manual, it covers not just the how, but also the why of vector art by detailing the thought processes and the choices made by experienced artists at every creative stage. The work reflects the vibrant creative world of vector graphics, its implementation in fields as diverse as illustration, character design, information graphics, type design, animation and interactive design.

Image and Video Retrieval Peter Enser, Yiannis Kompatsiaris, Noel E. O'Connor, Alan Smeaton, Arnold W.M.

Smeulders,2004-07-08 This book constitutes the refereed proceedings of the Third International Conference on Image and Video Retrieval, CIVR 2004, held in Dublin, Ireland in July 2004. The 31 revised full papers and 44 poster papers presented were carefully reviewed and selected from 125 submissions. The papers are organized in topical sections on image annotation and user searching, image and video retrieval algorithms, person and event identification for retrieval, content-based image and video retrieval, and user perspectives.

R and MATLAB David E. Hiebeler,2018-09-03 The First Book to Explain How a User of R or MATLAB Can Benefit from the Other In today's increasingly interdisciplinary world, R and MATLAB® users from different backgrounds must often work together and share code. R and MATLAB® is designed for users who already know R or MATLAB and now need to learn the other platform. The book makes the transition from one platform to the other as quick and painless as possible. Enables R and MATLAB Users to Easily Collaborate and Share Code The author covers essential tasks, such as working with matrices and vectors, writing functions and other programming concepts, graphics, numerical computing, and file input/output. He highlights important differences between the two platforms and explores common mistakes that are easy to make when transitioning from one platform to the other.

Game Programming in C++ Sanjay Madhav,2018-03-06 Program 3D Games in C++: The #1 Language at Top Game Studios Worldwide C++ remains the key language at many leading game development studios. Since it's used throughout their enormous code bases, studios use it to maintain and improve their games, and look for it constantly when hiring new developers. Game Programming in C++ is a practical, hands-on approach to programming 3D video games in C++. Modeled on Sanjay Madhav's game programming courses at USC, it's fun, easy, practical, hands-on, and complete. Step by step, you'll learn to use C++ in all facets of real-world game programming, including 2D and 3D graphics, physics, AI, audio, user interfaces, and much more. You'll hone real-world skills through practical exercises, and deepen your expertise through start-to-finish projects that grow in complexity as you build your skills. Throughout, Madhav pays special attention to demystifying the math that all professional game developers need to know. Set up your C++ development tools quickly, and get started Implement basic 2D graphics, game updates, vectors, and game physics Build more intelligent games with widely used AI algorithms Implement 3D graphics with OpenGL, shaders, matrices, and transformations Integrate and mix audio, including 3D positional audio Detect collisions of objects in a 3D environment Efficiently respond to player input Build user interfaces, including Head-Up Displays (HUDs) Improve graphics quality with anisotropic filtering and deferred shading Load and save levels and binary game data Whether you're a working developer or a student with prior knowledge of C++ and data structures, Game Programming in C++ will prepare you to solve real problems with C++ in roles throughout the game development lifecycle. You'll master the language that top studios are hiring for—and that's a proven route to success.

Paint Shop Pro 8 For Dummies David C. Kay,William Steinmetz,2003-09-02 Published in conjunction with the new release of Paint ShopPro, this book walks readers through image-editing fundamentals aswell as more advanced graphics and animation tools Shows photography and animation hobbyists how to createquality, professional-looking

graphics Discusses painting, spraying, retouching photos, adding artistic effects, layering, masking layers, adjusting color, moving, reshaping, copying, and printing images Also examines how to create Web images and animated graphics with Jasc's Animation Shop Author has written more than a dozen technology books

Introduction to Logic Circuits & Logic Design with VHDL Brock J. LaMeres, 2016-09-15 This textbook introduces readers to the fundamental hardware used in modern computers. The only pre-requisite is algebra, so it can be taken by college freshman or sophomore students or even used in Advanced Placement courses in high school. This book presents both the classical approach to digital system design (i.e., pen and paper) in addition to the modern hardware description language (HDL) design approach (computer-based). This textbook enables readers to design digital systems using the modern HDL approach while ensuring they have a solid foundation of knowledge of the underlying hardware and theory of their designs. This book is designed to match the way the material is actually taught in the classroom. Topics are presented in a manner which builds foundational knowledge before moving onto advanced topics. The author has designed the content with learning goals and assessment at its core. Each section addresses a specific learning outcome that the learner should be able to “do” after its completion. The concept checks and exercise problems provide a rich set of assessment tools to measure learner performance on each outcome. This book can be used for either a sequence of two courses consisting of an introduction to logic circuits (Chapters 1-7) followed by logic design (Chapters 8-13) or a single, accelerated course that uses the early chapters as reference material.

Deep Learning Stephane S. Tuffery, 2023-01-10 A concise and practical exploration of key topics and applications in data science In *Deep Learning, from Big Data to Artificial Intelligence*, expert researcher Dr. Stéphane Tufféry delivers an insightful discussion of the applications of deep learning and big data that focuses on practical instructions on various software tools and deep learning methods relying on three major libraries: MXNet, PyTorch, and Keras-TensorFlow. In the book, numerous, up-to-date examples are combined with key topics relevant to modern data scientists, including processing optimization, neural network applications, natural language processing, and image recognition. This is a thoroughly revised and updated edition of a book originally released in French, with new examples and methods included throughout. Classroom-tested and intuitively organized, *Deep Learning, from Big Data to Artificial Intelligence* offers complimentary access to a companion website that provides R and Python source code for the examples offered in the book. Readers will also find: A thorough introduction to practical deep learning techniques with explanations and examples for various programming libraries Comprehensive explorations of a variety of applications for deep learning, including image recognition and natural language processing Discussions of the theory of deep learning, neural networks, and artificial intelligence linked to concrete techniques and strategies commonly used to solve real-world problems Perfect for graduate students studying data science, big data, deep learning, and artificial intelligence, *Deep Learning, from Big Data to Artificial Intelligence* will also earn a place in the libraries of data science researchers and practicing data scientists.

Quick Start Guide to VHDL Brock J. LaMeres,2023-11-21 This textbook provides a starter's guide to VHDL. This book can be used in conjunction with a one-semester course in Digital Systems Design or on its own for designers who only need an introduction to the language. This book is designed to provide a bottoms-up approach to learning the VHDL language. This design supports a course in which foundational knowledge is covered before moving into advanced topics. However, this design also supports use as a reference manual. The author has designed the presentation with learning goals and assessment at its core. Each section addresses a specific learning outcome that the student should be able to "do" after its completion. The concept checks and exercise problems provide a rich set of assessment tools to measure student performance on each outcome.

Disrupting Dark Networks Sean F. Everton,2012-11-12 Sean F. Everton focuses on how social network analysis can be used to craft strategies to track, destabilize, and disrupt covert, illegal networks. He illustrates these methods through worked examples from four different social network analysis software packages (UCINET, NetDraw, Pajek, and ORA), using standard network data sets as well as data from an actual terrorist network to serve as a running example throughout the book.

C++20 Recipes J. Burton Browning,Bruce Sutherland,2020-04-24 Discover the newest major features of C++20, including modules, concepts, spaceship operators, and smart pointers. This book is a handy code cookbook reference guide that covers the C++ core language standard as well as some of the code templates available in standard template library (STL). In C++20 Recipes: A Problem-Solution Approach, you'll find numbers, strings, dates, times, classes, exceptions, streams, flows, pointers, and more. Also, you'll see various code samples, templates for C++ algorithms, parallel processing, multithreading, and numerical processes. It also includes 3D graphics programming code. A wealth of STL templates on function objects, adapters, allocators, and extensions are also available. This is a must-have, contemporary reference for your technical library to help with just about any project that involves the C++ programming language. What You Will Learn See what's new in C++20 Write modules Work with text, numbers, and classes Use the containers and algorithms available in the standard library Work with templates, memory, concurrency, networking, scripting, and more Code for 3D graphics Who This Book Is For Programmers with at least some prior experience with C++.

C++ Recipes Bruce Sutherland,2015-05-14 C++ Recipes: A Problem-Solution Approach is a handy code cookbook reference guide that cover the latest C++ 14 as well as some of the code templates available in the latest Standard Template Library (STL). In this handy reference, you'll find numbers, strings, dates, times, classes, exceptions, streams, flows, pointers and more. Also, you'll see various code samples, templates for C++ algorithms, parallel processing, multithreading and numerical processes. These have many applications including game development, big data analytics, financial engineering and analysis, enterprise applications and more. A wealth of STL templates on function objects, adapters, allocators, and extensions are also available. This is a must have, contemporary reference for your technical library.

Quantitative Corpus Linguistics with R Stefan Th. Gries,2016-10-14 As in its first edition, the new edition of

Quantitative Corpus Linguistics with R demonstrates how to process corpus-linguistic data with the open-source programming language and environment R. Geared in general towards linguists working with observational data, and particularly corpus linguists, it introduces R programming with emphasis on: data processing and manipulation in general; text processing with and without regular expressions of large bodies of textual and/or literary data, and; basic aspects of statistical analysis and visualization. This book is extremely hands-on and leads the reader through dozens of small applications as well as larger case studies. Along with an array of exercise boxes and separate answer keys, the text features a didactic sequential approach in case studies by way of subsections that zoom in to every programming problem. The companion website to the book contains all relevant R code (amounting to approximately 7,000 lines of heavily commented code), most of the data sets as well as pointers to others, and a dedicated Google newsgroup. This new edition is ideal for both researchers in corpus linguistics and instructors who want to promote hands-on approaches to data in corpus linguistics courses.

Biomedical Signal Processing Arnon Cohen, 2019-07-17 First published in 1986: The presentation of the material in the book follows the flow of events of the general signal processing system. After the signal has been acquired, some manipulations are applied in order to enhance the relevant information present in the signal. Simple, Optimal, and adaptive filtering are examples of such manipulations. The detection of wavelets is of importance in biomedical signals; they can be detected from the enhanced signal by several methods. The signal very often contains redundancies. When effective storing, transmission, or automatic classification are required, these redundancies have to be extracted.

Innovations Through Information Technology Information Resources Management Association. International Conference, 2004-01-01 *Innovations Through Information Technology* aims to provide a collection of unique perspectives on the issues surrounding the management of information technology in organizations around the world and the ways in which these issues are addressed. This valuable book is a compilation of features including the latest research in the area of IT utilization and management, in addition to being a valuable source in support of teaching and research agendas.

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