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Introduction to Algorithms, third edition
 Randomized Algorithms and Probabilistic Analysis
 This Book Includes: Python Machine Learning, SQL, Linux, Hacking with Kali Linux, Ethical Hacking, Coding and Cybersecurity Fundamentals.
 3-d Negotiation
 A Primer on Scientific Programming with Python
 MATLAB Programming for Engineers
 Theory and Applications
 Track Design Handbook for Light Rail Transit
 Applying the Classification of Finite Simple Groups: A User's Guide
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JADA ACEVEDO

[Introduction to Algorithms, third edition](#) Springer Science & Business Media
 Master C++ "The Qt Way" with Modern Design Patterns and Efficient Reuse This fully updated, classroom-tested book teaches C++ "The Qt Way," emphasizing design patterns and efficient reuse. Readers will master both the C++ language and Qt libraries, as they learn to develop maintainable software with well-defined code layers and simple, reusable classes and functions. Every chapter of this edition has been improved with new content, better organization, or both. Readers will find extensively revised coverage of QObjects, Reflection, Widgets, Main Windows, Models and Views, Databases, Multi-Threaded Programming, and Reflection. This edition introduces the powerful new Qt Creator IDE; presents new multimedia APIs; and offers extended coverage of Qt Designer and C++ Integration. It has been restructured to help readers start writing software immediately and write robust, effective software sooner. The authors introduce several new design patterns, add many quiz questions and labs, and present more efficient solutions relying on new Qt features and best practices. They also provide an up-to-date C++ reference section and a complete application case study. Master C++ keywords, literals, identifiers, declarations, types, and type conversions. Understand classes and objects, organize them, and describe their interrelationships. Learn consistent programming style and naming rules. Use lists, functions, and other essential techniques. Define inheritance relationships to share code and promote reuse. Learn how code libraries are designed, built, and reused. Work with QObject, the base class underlying much of Qt. Build graphical user interfaces with Qt widgets. Use templates to write generic functions and classes. Master advanced reflective programming techniques. Use the Model-View framework to cleanly separate data and GUI classes. Validate input using regular expressions and other techniques. Parse XML data with SAX, DOM, and QDomStreamReader. Master today's most valuable creational and structural design patterns. Create, use, monitor, and debug processes and threads. Access databases with Qt's SQL classes. Manage memory reliably and efficiently. Understand how to effectively manage QThreads and use QtConcurrent algorithms. Click here to obtain supplementary materials for this book.

[Randomized Algorithms and Probabilistic Analysis](#) National Academies Press

The anthrax incidents following the 9/11 terrorist attacks put the spotlight on the nation's public health agencies, placing it under an unprecedented scrutiny that added new dimensions to the complex issues considered in this report. The Future of the Public's Health in the 21st Century reaffirms the vision of Healthy People 2010, and outlines a systems approach to assuring the nation's health in practice, research, and policy. This approach focuses on joining the unique resources and perspectives of diverse sectors and entities and challenges these groups to work in a concerted, strategic way to promote and protect the public's health. Focusing on diverse partnerships as the framework for public health, the book discusses: The need for a shift from an individual to a population-based approach in practice, research, policy, and community engagement. The status of the governmental public health infrastructure and what needs to be improved, including its interface with the health care delivery system. The roles nongovernment actors, such as academia, business, local communities and the media can play in creating a healthy nation. Providing an accessible analysis, this book will be important to public health policy-makers and practitioners, business and community leaders, health advocates, educators and journalists.

This Book Includes: Python Machine Learning, SQL, Linux, Hacking with Kali Linux, Ethical Hacking, Coding and Cybersecurity Fundamentals. National Academies Press

This multidisciplinary issue of Heart Failure Clinics examines a critical element in the management and treatment of heart failure (HF)—exercise and rehabilitation. Topics include the reversal of HF-associated pathophysiology with exercise; quantifying function; prognosis; rehabilitation practice patterns in the United States, Canada, South America, Asia, and Europe; special considerations such

as obesity, high-intensity interval training, inspiratory muscle training, and technology to promote and increase physical activity.

[3-d Negotiation](#) SIAM

The book serves as a first introduction to computer programming of scientific applications, using the high-level Python language. The exposition is example and problem-oriented, where the applications are taken from mathematics, numerical calculus, statistics, physics, biology and finance. The book teaches "Matlab-style" and procedural programming as well as object-oriented programming. High school mathematics is a required background and it is advantageous to study classical and numerical one-variable calculus in parallel with reading this book. Besides learning how to program computers, the reader will also learn how to solve mathematical problems, arising in various branches of science and engineering, with the aid of numerical methods and programming. By blending programming, mathematics and scientific applications, the book lays a solid foundation for practicing computational science. From the reviews: Langtangen ... does an excellent job of introducing programming as a set of skills in problem solving. He guides the reader into thinking properly about producing program logic and data structures for modeling real-world problems using objects and functions and embracing the object-oriented paradigm. ... Summing Up: Highly recommended. F. H. Wild III, Choice, Vol. 47 (8), April 2010 Those of us who have learned scientific programming in Python 'on the streets' could be a little jealous of students who have the opportunity to take a course out of Langtangen's Primer." John D. Cook, The Mathematical Association of America, September 2011 This book goes through Python in particular, and programming in general, via tasks that scientists will likely perform. It contains valuable information for students new to scientific computing and would be the perfect bridge between an introduction to programming and an advanced course on numerical methods or computational science. Alex Small, IEEE, CISE Vol. 14 (2), March /April 2012 "This fourth edition is a wonderful, inclusive textbook that covers pretty much everything one needs to know to go from zero to fairly sophisticated scientific programming in Python..." Joan Horvath, Computing Reviews, March 2015

A Primer on Scientific Programming with Python Springer Science & Business Media

Jump into the world of Near Field Communications (NFC), the fast-growing technology that lets devices in close proximity exchange data, using radio signals. With lots of examples, sample code, exercises, and step-by-step projects, this hands-on guide shows you how to build NFC applications for Android, the Arduino microcontroller, and embedded Linux devices. You'll learn how to write apps using the NFC Data Exchange Format (NDEF) in PhoneGap, Arduino, and node.js that help devices read messages from passive NFC tags and exchange data with other NFC-enabled devices. If you know HTML and JavaScript, you're ready to start with NFC. Dig into NFC's architecture, and learn how it's related to RFID Write sample apps for Android with PhoneGap and its NFC plugin Dive into NDEF: examine existing tag-writer apps and build your own Listen for and filter NDEF messages, using PhoneGap event listeners Build a full Android app to control lights and music in your home Create a hotel registration app with Arduino, from check-in to door lock Write peer-to-peer NFC messages between two Android devices Explore embedded Linux applications, using examples on Raspberry Pi and BeagleBone

[MATLAB Programming for Engineers](#) Prentice Hall

When discussing being stuck in a "win-win vs. win-lose" debate, most negotiation books focus on face-to-face tactics. Yet, table tactics are only the "first dimension" of David A. Lax and James K. Sebenius' pathbreaking 3-D Negotiation (TM) approach, developed from their decades of doing deals and analyzing great dealmakers. Moves in their "second dimension"—deal design—systematically unlock economic and noneconomic value by creatively structuring agreements. But what sets the 3-D approach apart is its "third dimension": setup. Before showing up at a bargaining session, 3-D Negotiators ensure that the right parties have been approached, in the right sequence, to address the right interests, under the right expectations, and facing the right consequences of walking away if there is no deal. This new arsenal of moves away from the table often has the greatest impact on

the negotiated outcome. Packed with practical steps and cases, 3-D Negotiation demonstrates how superior setup moves plus insightful deal designs can enable you to reach remarkable agreements at the table, unattainable by standard tactics.

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Track Design Handbook for Light Rail Transit McGraw-Hill Companies

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Applying the Classification of Finite Simple Groups: A User's Guide Pearson Education India

If you want to build an enterprise-quality application that uses natural language text but aren't sure where to begin or what tools to use, this practical guide will help get you started. Alex Thomas, principal data scientist at Wisecube, shows software engineers and data scientists how to build scalable natural language processing (NLP) applications using deep learning and the Apache Spark NLP library. Through concrete examples, practical and theoretical explanations, and hands-on exercises for using NLP on the Spark processing framework, this book teaches you everything from basic linguistics and writing systems to sentiment analysis and search engines. You'll also explore special concerns for developing text-based applications, such as performance. In four sections, you'll learn NLP basics and building blocks before diving into application and system building: Basics: Understand the fundamentals of natural language processing, NLP on Apache Spark, and deep learning Building blocks: Learn techniques for building NLP applications—including tokenization, sentence segmentation, and named-entity recognition—and discover how and why they work Applications: Explore the design, development, and experimentation process for building your own NLP applications Building NLP systems: Consider options for productionizing and deploying NLP models, including which human languages to support

Background Notes, Singapore CreateSpace

Newly revised by the AMA, the Graduate Medical Education Directory, 2007 - 2008 (or the "Green Book") contains extensive information on more than 8,300 residency, fellowship and combined programs in the United States, as well as residency application and career-planning resources to help in making one of the most important professional decisions that a medical student can make. In this new edition, you'll find more than 6,500 revisions, updated specialty/subspecialty information/data, including Match data and more. Other changes to this edition include: 1,200 program director changes, 240 new programs, and 90 withdrawn programs. Inside the 2007-2008 edition, you'll find: * Comprehensive GME program listings, including program director, address, phone, fax, and e-mail address * Certification requirements for 24 medical specialty boards * Teaching institutions that sponsor GME programs * Residency application and career planning resources * Expanded descriptions of GME-related organizations * Medical licensure information * A list of Canadian residency programs Purchase your copy today of this indispensable tool designed to help medical students during their search through residency programs.

Induced Seismicity Potential in Energy Technologies Springer

In the past several years, some energy technologies that inject or extract fluid from the Earth, such as oil and gas development and geothermal energy development, have been found or suspected to cause seismic events, drawing heightened public attention. Although only a very small fraction of injection and extraction activities among the hundreds of thousands of energy development sites in the United States have induced seismicity at levels noticeable to the public, understanding the potential for inducing felt seismic events and for limiting their occurrence and impacts is desirable for state and federal agencies, industry, and the public at large. To better understand, limit, and respond to induced seismic events, work is needed to build robust prediction models, to assess potential hazards, and to help relevant agencies coordinate to address them. *Induced Seismicity Potential in Energy Technologies* identifies gaps in knowledge and research needed to advance the understanding of induced seismicity; identify gaps in induced seismic hazard assessment methodologies and the research to close those gaps; and assess options for steps toward best practices with regard to energy development and induced seismicity potential.

Introduction to Design Patterns in C++ with Qt Univ of Wisconsin Press

This pioneering text provides a holistic approach to decisionmaking in transportation project development and programming, which can help transportation professionals to optimize their investment choices. The authors present a proven set of methodologies for evaluating transportation projects that ensures that all costs and impacts are taken into consideration. The text's logical organization gets readers started with a solid foundation in basic principles and then progressively builds on that foundation. Topics covered include: Developing performance measures for evaluation, estimating travel demand, and costing transportation projects Performing an economic efficiency evaluation that accounts for such factors as travel time, safety, and vehicle operating costs Evaluating a project's impact on economic development and land use as well as its impact on society and culture Assessing a project's environmental impact, including air quality, noise, ecology, water resources, and aesthetics Evaluating alternative projects on the basis of multiple performance criteria Programming transportation investments so that resources can be optimally allocated to

meet facility-specific and system-wide goals Each chapter begins with basic definitions and concepts followed by a methodology for impact assessment. Relevant legislation is discussed and available software for performing evaluations is presented. At the end of each chapter, readers are provided resources for detailed investigation of particular topics. These include Internet sites and publications of international and domestic agencies and research institutions. The authors also provide a companion Web site that offers updates, data for analysis, and case histories of project evaluation and decisionmaking. Given that billions of dollars are spent each year on transportation systems in the United States alone, and that there is a need for thorough and rational evaluation and decision making for cost-effective system preservation and improvement, this text should be on the desks of all transportation planners, engineers, and educators. With exercises in every chapter, this text is an ideal coursebook for the subject of transportation systems analysis and evaluation.

A Guide for Search Committees -- National Edition John Wiley & Sons

Exercise and Rehabilitation in Heart Failure, An Issue of Heart Failure Clinics, Elsevier Health Sciences

Powerful Tools to Change the Game in Your Most Important Deals "O'Reilly Media, Inc."

TCRP report 155 provides guidelines and descriptions for the design of various common types of light rail transit (LRT) track. The track structure types include ballasted track, direct fixation ("ballastless") track, and embedded track. The report considers the characteristics and interfaces of vehicle wheels and rail, tracks and wheel gauges, rail sections, alignments, speeds, and track moduli. The report includes chapters on vehicles, alignment, track structures, track components, special track work, aerial structures/bridges, corrosion control, noise and vibration, signals, traction power, and the integration of LRT track into urban streets.

2nd Edition Cambridge University Press

This book is recognized as the standard reference manual for the REXX Programming Language, much as Kernighan and Ritchie is recognized as the standard reference book for the C Programming Language.

Discrete Mathematics for Computer Science "O'Reilly Media, Inc."

Recruiting, hiring, and retaining an excellent and diverse faculty is a top priority for colleges and universities nationwide. Yet faculty serving on search committees (or hiring committees) receive little or no education about the search process. Relying on both research and experience presenting hiring workshops to search committee members, the authors of this guidebook provide advice and recommendations for conducting an effective faculty search. The book includes practical suggestions for managing all stages of a faculty search as well as recommendations for ensuring that search committee members recruit women and members of underrepresented groups into their applicant pools and consciously avoid the influence of bias and assumptions in their evaluation of job candidates.

A Practical Approach to Programming Now Publishers Inc

Interaction Design and Children surveys the research on children's cognitive and motor development, safety issues related to technologies and design methodologies and principles. It also provides an overview of current research trends in the field of interaction design and children and identifies challenges for future research.

Exercise and Rehabilitation in Heart Failure, An Issue of Heart Failure Clinics, Cengage Learning

Orthogonal arrays have played a vital role in improving the quality of products manufactured throughout the world. This first book on the subject since its introduction more than fifty years ago serves as a key resource to this area of designing experiments. Most of the arrays obtained by the methods in this book are available electronically. Anyone running experiments - whether in a chemistry lab or a manufacturing plant, or in agricultural or medical research - will find this book useful.

Principles, Algorithms, and Systems Transportation Research Board

Descriptive set theory has been one of the main areas of research in set theory for almost a century. This text presents a largely balanced approach to the subject, which combines many elements of the different traditions. It includes a wide variety of examples, more than 400 exercises, and applications, in order to illustrate the general concepts and results of the theory.

Critical Reading and Writing for Postgraduates SAGE

This is the second edition of Travis Oliphant's *A Guide to NumPy* originally published electronically in 2006. It is designed to be a reference that can be used by practitioners who are familiar with Python but want to learn more about NumPy and related tools. In this updated edition, new perspectives are shared as well as descriptions of new distributed processing tools in the ecosystem, and how Numba can be used to compile code using NumPy arrays. Travis Oliphant is the co-founder and CEO of Continuum Analytics. Continuum Analytics develops Anaconda, the leading modern open source analytics platform powered by Python. Travis, who is a passionate advocate of open source technology, has a Ph.D. from Mayo Clinic and B.S. and M.S. degrees in Mathematics and Electrical Engineering from Brigham Young University. Since 1997, he has worked extensively with Python for computational and data science. He was the primary creator of the NumPy package and founding contributor to the SciPy package. He was also a co-founder and past board member of NumFOCUS, a non-profit for reproducible and accessible science that supports the PyData stack. He also served on the board of the Python Software Foundation.

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