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Word 2016 In Depth (includes Content Update Program)-Faithe Wempen 2015-11-03 Word 2016 IN DEPTH Beyond the Basics... Beneath the Surface...In Depth Do more in less time! Are you ready to harness the full power of Word 2016 to create professional documents? Then, you're ready for Word 2016 In Depth. In this comprehensive guide to Word, you'll learn the skills and techniques for efficiently building the documents you need for both your professional and your personal life. Faithe Wempen delivers step-by-step instructions, troubleshooting advice, and insider tips to help you improve your written image in business, academic, organizational, and personal settings. • Accelerate formatting by creating and applying themes and styles • Incorporate graphical content such as clip art, photos, SmartArt, and charts • Save your work in a variety of formats, including backward-compatible Word files, PDF and XPS page layouts, graphics, HTML, and more • Perform mail and data merges to generate catalogs, form letters, labels, and envelopes • Learn about the fields that drive many of Word's most powerful features, and how to look behind the scenes to customize field behaviors • Use indexing, tables of contents, and master documents to organize book-length works • Cite sources and document references in a variety of formats, including APA and MLA • Collaborate with other people, even simultaneously, managing each person's comments and changes • Create complex math formulas without leaving Word • Write and edit macros that automate repeated tasks • Work with your Word documents anywhere via OneDrive® and Office Online • Create user-interactive forms that include a variety of field types All In Depth books offer • Comprehensive coverage with detailed solutions • Troubleshooting help for tough problems you can't fix on your own • Outstanding authors recognized worldwide for their expertise and teaching style Learning, reference, problem-solving...the only Word 2016 book you need! This book is part of Que's Content Update Program. As Microsoft updates features of Word, sections of this book will be updated or new sections will be added to match the updates to the software. See inside for details. Advanced District Heating and Cooling (DHC) Systems-Robin Wiltshire 2015-08-31 Advanced District Heating and Cooling (DHC) Systems presents the latest information on the topic, providing valuable information on the distribution of centrally generated heat or cold energy to buildings, usually in the form of space heating, cooling, and hot water. As DHC systems are more efficient and less polluting than individual domestic or commercial heating and cooling systems, the book provides an introduction to DHC, including its potential contribution to reducing carbon dioxide emissions, then reviews thermal energy generation for DHC, including fossil fuel-based technologies, those based on renewables, and surplus heat valorization. Final sections address methods to improve the efficiency of DHC. Gives a comprehensive overview of DHC systems and the technologies and energy resources utilized within these systems Analyzes the various methods used for harnessing energy to apply to DHC systems Ideal resource for those interested in district cooling, teleheating, heat networks, distributed heating, thermal energy, cogeneration, combined heat and power, and CHP Reviews the application of DHC systems in the field, including both the business model side and the planning needed to implement these systems The origin, function and diagnostic potential of extracellular microRNA in human body fluids-Andrey Turchinovich 2014-07-28 Short non-coding RNA molecules, microRNAs (miRNAs), post-transcriptionally regulate gene expression in living cells. In recent years, miRNAs have been found in a wide spectrum of mammalian body fluids including blood plasma, saliva, urine, milk, seminal plasma, tears and amniotic fluid as extracellular circulating nuclease-resistant entities. The changes in miRNA spectra observed in certain fluids correlated with various pathological conditions suggesting that extracellular miRNAs can serve as informative biomarkers for certain diseases including cancer. However, the mechanism of generation and a biological role of extracellular miRNAs remain unclear. The current theories regarding extracellular miRNA origin and function suggest that these miRNAs can be either non-specific 'by-products' of cellular activity and cell death or specifically released cell-cell signaling messengers. The goal of this Research Topic is to bring together up-to-date knowledge about the extracellular miRNA and its role in disease diagnostics and, possibly, inter-cellular communication. Cosmetic Dermatology-Zoe Diana Draelos 2011-08-31 Cosmetic Dermatology: Products and Procedures provides a comprehensive compendium of the approaches cosmetic dermatolgists can apply for their patients. It is structured by use within a daily routine so the dermatologist can provide a complete solution for their patients. It reviews skin physiology and the delivery systems of cosmetics, and how they affect the skin. It then looks sequentially at hygiene products for cleaning and mositurizing the skin, adornment products for colouring before looking at antiaging techniques for rejuvenating the skin and their applications as therapeutics. Using short, tightly focused chapters written by recognized experts, Cosmetic Dermatology: Products and Procedures Covers cosmetic applications for hygiene, adornment and antiaging Reviews the full range of cosmetic products and procedures Provides both therapeutic and aesthetic applications Comprises concise, highly focused chapters enabling the reader to gather a thorough understanding References key significant evidence presented for each chapter Outcast Europe: The Balkans, 1789-1989-Tom Gallagher 2013-11-14 Examining two centuries of Balkan politics, from the emergence of nationalism to the retreat of Communist power in 1989, this is the first book to systematically argue that many of the region's problems are external in origin. A decade of instability in the Balkan states of southeast Europe has given the region one of the worst images in world politics. The Balkans has become synonymous with chaos and extremism. Balkanization, meaning conflict arising from the fragmentation of political power, is a condition feared across the globe. This new text assesses the key issues of Balkan politics, showing how the development of exclusive nationalism has prevented the region's human and material resources from being harnessed in a constructive way. It argues that the proximity of the Balkans to the great powers is the main reason for instability and decline. Britain, Russia, Austria-Hungary, France and finally the USA had conflicting ambitions and interests in the region. Russia had imperial designs before and after the 1917 Revolution. The Western powers sometimes tolerated these or encouraged undemocratic local forces to exercise control in order to block further Soviet expansion. Leading authority Tom Gallagher examines the origins of these Western prejudices towards the Balkans, tracing the damaging effects of policies based on Western lethargy and cynicism, and reassesses the negative image of the region, its citizens, their leadership skills and their potential to overcome crucial problems. An Introduction to Kolmogorov Complexity and Its Applications-Ming Li 2013-03-09 Briefly, we review the basic elements of computability theory and prob ability theory that are required. Finally, in order to place the subject in the appropriate historical and conceptual context we trace the main roots of Kolmogorov complexity. This way the stage is set for Chapters 2 and 3, where we introduce the notion of optimal effective descriptions of objects. The length of such a description (or the number of bits of information in it) is its Kolmogorov complexity. We treat all aspects of the elementary mathematical theory of Kolmogorov complexity. This body of knowledge may be called algo rithmic complexity theory. The theory of Martin-Lof tests for random ness of finite objects and infinite sequences is inextricably intertwined with the theory of Kolmogorov complexity and is completely treated. We also investigate the statistical properties of finite strings with high Kolmogorov complexity. Both of these topics are eminently useful in the applications part of the book. We also investigate the recursion theoretic properties of Kolmogorov complexity (relations with Godel's incompleteness result), and the Kolmogorov complexity version of infor mation theory, which we may call "algorithmic information theory" or "absolute information theory. " The treatment of algorithmic probability theory in Chapter 4 presup poses Sections 1. 6, 1. 11, 2, and Chapter 3 (at least Sections 3. 1 through 3. 4). Anticancer Agents from Natural Products-Gordon M. Cragg 2005-06-13 Plants, marine organisms, and microorganisms have evolved complex chemical defense and signaling systems that are designed to protect them from predators and provide other biological benefits. These organisms thus produce substances containing novel chemotypes that may have beneficial effects for humans. As collection methods improve and new screen Circulating MicroRNAs-Takahiro Ochiya 2013-06-14 microRNAs (miRNAs) are small non-coding RNAs that regulate various biological phenomena, such as development and homeostasis. The dysregulation of miRNA leads to disease progression, particularly of cancer. In Circulating MicroRNAs: Methods and Protocols, expert researchers in the field detail recent advances in the isolation, purification and analysis of circulating miRNAs from a variety of sources for research. The book is divided into three main topics. The first section involves the study of secretory miRNAs in cell-cell communication, and the second, the study of circulating miRNAs in body fluids. The last describes the novel techniques used to study circulating miRNAs. Written in the highly successful Methods in Molecular Biology™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and key tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Circulating MicroRNAs: Methods and Protocols seeks to aid scientists in dealing with the recent advances of RNAi technology from the bench to the bedside. A Flora of North America: Containing Abridged Descriptions of All the Known-indigenous and Naturalized Plants Growing North of Mexico-John Torrey 1840 Operations Research Proceedings 2015-Karl Franz Dörner 2017-03-07 This book gathers a selection of refereed papers presented at the “International Conference on Operations Research OR2015,” which was held at the University of Vienna, Austria, September 1-4, 2015. Over 900 scientists and students from 50 countries attended this conference and presented more than 600 papers in parallel topic streams as well as special award sessions. Though the guiding theme of the conference was “Optimal Decision and Big Data,” this volume also includes papers addressing practically all aspects of modern Operations Research. Smithells Metals Reference Book-William F. Gale 2003-12-09 Smithells is the only single volume work which provides data on all key aspects of metallic materials. Smithells has been in continuous publication for over 50 years. This 8th Edition represents a major revision. Four new chapters have been added for this edition. these focus on; * Non conventional and emerging materials - metallic foams, amorphous metals (including bulk metallic glasses), structural intermetallic compounds and micr/nano-scale materials. * Techniques for the modelling and simulation of metallic materials. * Supporting technologies for the processing of metals and alloys. * An Extensive bibliography of selected sources of further metallurgical information, including books, journals, conference series, professional societies, metallurgical databases and specialist search tools. * One of the best known and most trusted sources of reference since its first publication more than 50 years ago * The only single volume containing all the data needed by researchers and professional metallurgists * Fully updated to the latest revisions of international standards The Gerould Statistics, 1907/08-1961/62-Robert E. Molyneux 1986 Eye Tracking for the Chemistry Education Researcher-Jessica R. VandenPlas 2019-07-19 The idea for an ACS symposium series for eye tracking started to form in the summer of 2015. Each of the editors had experience with eye tracking from our dissertation research and upon further discussion, discovered they all had the same questions: What type of eye tracker should be used? What types of research questions can eye tracking answer? What should be considered concerning experimental design? How could the results be analyzed in a meaningful way? With no clear help from the existing chemistry education research (CER) literature, the editors had to expand their reading to the fields of psychology, consumer analysis, and product design to find suitable answers. When they spoke with chemistry education researchers who were interested in eye tracking, they discovered these same questions were prevalent among them as well; and often, they did not even know where to start. At that point, they decided that an eye-tracking guidebook aimed at chemistry education researchers could be a valuable resource. This book is not intended to be a review of eye tracking in CER literature; rather, it is meant to be a tool to help answer the same questions the editors had when they started out in the field. The editors also hope that those with some experience in eye tracking will find among these pages ideas they had not considered applying to their research, but that will be valuable to them moving forward. Patterns in Eigenvalues-Persi Diaconis 2002 Just-in-time Teaching-Gregor M. Novak 1999 The authors explain how a group of higher education schools used just-in-time teaching (JiTTT) methods to increase interactivity for the physics student. By enhancing courses with multimedia Web activities and electronic communications, the classroom environment allowed less dependence on lecture and more rapid responses to students' problems. --Résumé de l'éditeur. Spin Glass Theory and Beyond-Marc Mezard 1987 "The authors give a masterly account of the work on the Sherrington-Kirkpatrick model in the first 85 pages. Such a summary cannot be found elsewhere, and much of our current understanding of the problem is due to the authors of this book and their collaborators".This is an important book, which every physics library should have. It is also good reading for anyone who wants to know about these aspects of the spin glass problem, and why "replica symmetry breaking" and "ultrametricity" may be important".Physics Today, 1988" a very useful source of relevant information on the progress achieved by theoretical physicists in the field. It can be helpful also to mathematicians trying to develop a mathematically rigorous counterpart of this theory".EMS, 1999 Computationally Efficient Model Predictive Control Algorithms-Maciej Ławryńczuk 2014-01-24 This book thoroughly discusses computationally efficient (suboptimal) Model Predictive Control (MPC) techniques based on neural models. The subjects treated include: · A few types of suboptimal MPC algorithms in which a linear approximation of the model or of the predicted trajectory is successively calculated on-line and used for prediction. · Implementation details of the MPC algorithms for feed forward perceptron neural models, neural Hammerstein models, neural Wiener models and state-space neural models. · The MPC algorithms based on neural multi-models (inspired by the idea of predictive control). · The MPC algorithms with neural approximation with no on-line linearization. · The MPC algorithms with guaranteed stability and robustness. · Cooperation between the MPC algorithms and set-point optimization. Thanks to linearization (or neural approximation), the presented suboptimal algorithms do not require demanding on-line nonlinear optimization. The presented simulation results demonstrate high accuracy and computational efficiency of the algorithms. For a few representative nonlinear benchmark processes, such as chemical reactors and a distillation column, for which the classical MPC algorithms based on linear models do not work properly, the trajectories obtained in the suboptimal MPC algorithms are very similar to those given by the ``ideal" MPC algorithm with on-line nonlinear optimization repeated at each sampling instant. At the same time, the suboptimal MPC algorithms are significantly less computationally demanding. Effective Grading-Barbara E. Walvoord 1998-02-25 The grading process can yield rich information about student learning. Effective Grading enables faculty to go beyond using grades as isolated artifacts and helps them make classroom grading processes more fair, time-efficient, and conducive to learning. Classroom assessment of student learning can then contribute to departmental and general-education assessment in ways that meet the needs of institutions and accrediting agencies. Tailored to specific needs of faculty members who seek to make grading a valuable part of student learning and motivation, Effective Grading balances assessment theory and hands-on advice. It offers an in-depth examination of the link between teaching and grading and provides concrete guidance on such critical steps as setting and communicating grading standards, developing assignments to grade, managing time spent on grading, and providing feedback for students. Fully Tuned Radial Basis Function Neural Networks for Flight Control-N. Sundararajan 2013-03-09 Fully Tuned Radial Basis Function Neural Networks for Flight Control presents the use of the Radial Basis Function (RBF) neural networks for adaptive control of nonlinear systems with emphasis on flight control applications. A Lyapunov synthesis approach is used to derive the tuning rules for the RBF controller parameters in order to guarantee the stability of the closed loop system. Unlike previous methods that tune only the weights of the RBF network, this book presents the derivation of the tuning law for tuning the centers, widths, and weights of the RBF network, and compares the results with existing algorithms. It also includes a detailed review of system identification, including indirect and direct adaptive control of nonlinear systems using neural networks. Fully Tuned Radial Basis Function Neural Networks for Flight Control is an excellent resource for professionals using neural adaptive controllers for flight control applications. Physicochemical Properties of Molten Slags and Glasses-E. T. Turkdogan 1983 Farm Management in New Zealand-Nicola Shadbolt 2005 Unlike many other countries, where advanced study of farm management is undertaken in preparation for a career off farm, either in downstream agribusiness or research, many students in New Zealand undertake advanced study in farm management to prepare them for the challenging task of managing a modern farm business. This textbook reflects this difference and is aimed at senior students of farm management who intend to become farm owners or managers or to join the profession that services the vibrant farming sector. This book applies general management principles and practices to the business of farming in New Zealand. The emphasis is on low cost, deregulated farming systems that are geographically distant from their market. The book focuses on the skills, knowledge, business structures and practices that farmers need to be successful in a deregulated economy. Takes a whole-farm approach Addresses practice and theory Relevant and clearly presented Queen Bess-Doris L. Rich 2015-03-10 Here is the brief but intense life of Bessie Coleman, America's first African American woman aviator. Born in 1892 in Atlanta, Texas, she became known as “Queen Bess,” a barnstormer and flying-circus performer who defied the strictures of race, sex, and society in pursuit of a dream. Lives of Muslims in India-Abdul Shaban 2018-01-10 The fast-consolidating identities along religious and ethnic lines in recent years have considerably ‘minoritised’ Muslims in India. The wide-ranging essays in this volume focus on the intensified exclusionary practices against Indian Muslims, highlighting how, amidst a politics of violence,

confusing policy frameworks on caste and class lines, and institutionalised riot systems, the community has also suffered from the lack of leadership from within. At the same time, Indian Muslims have emerged as a ‘mass’ around which the politics of ‘vote bank’, ‘appeasement’, ‘foreigners’, ‘Pakistanis within the country’, and so on are innovated and played upon, making them further apprehensive about asserting their legitimate right to development. The important issues of the double marginalisation of Muslim women and attempts to reform the Muslim Personal Law by some civil society groups is also discussed. Contributed by academics, activists and journalists, the articles discuss issues of integration, exclusion and violence, and attempt to understand categories such as ‘identity’, ‘minority’, ‘multiculturalism’ and ‘nationalism’ with regard to and in the context of Indian Muslims. This second edition, with a new introduction, will be of great interest to scholars and researchers in sociology, politics, history, cultural studies, minority studies, Islamic studies, policy studies and development studies, as well as policymakers, civil society activists and those in media and journalism.

Microsoft Word 2010 in Depth-Faihe Wempen 2011 Presents a comprehensive guide to the word processing program, including information on creating documents, working with templates, embedding data, collaborating, and customizing the Word interface.

Photosynthetic Carbon Assimilation-H. W. Siegelman 2012-12-06 The photosynthetic fixation of carbon dioxide into organic compounds is mediated by the enzyme ribulose 1,5-bisphosphate (RuBP) carboxylase. The diversity of current research on this protein attests to its central role in biomass productivity, and suggests the importance of a timely and broadly based review. This Symposium was the first devoted exclusively to RuBP carboxylase and was attended by agronomists, plant physiologists, biochemists, molecular biologists, and crystallographers. Special efforts were made to involve young scientists in addition to established investigators. It is a pleasure to acknowledge financial support provided by the Department of Energy, the United States Department of Agricul ture, and the National Science Foundation, and the valued assistance of agency representatives, Drs. Joe Key, Robert Rabson, Elijah Romanoff, and Donald Senich. Thanks are due to Mrs. Margaret Dienes, without whose editorial skills this volume could not have been produced, and to Mrs. Helen Kondratuk as Symposium Coordinator. Finally, we wish to record our indebtedness to Dr. Alexander Hollaender for his tireless efforts in support of all aspects of this Symposium.

The Think Aloud Method-Maarten W. van Someren 1994 This book presents a detailed description of the Think Aloud Method, which was developed to facilitate knowledge acquisition and problem-solving by asking the participant to think aloud while solving a problem. The Think Aloud Method is based on the premise that people are often able to verbalize their thoughts as they solve a problem, and their resulting behavior can be analyzed to answer questions about problem solving behavior. This method is useful for psychological research on problem solving behavior, as well as for knowledge acquisition in the context of building expert computer programs. In many cases the Think Aloud Method is an invaluable source of information for psychologists and knowledge engineers. The Think Aloud Method is intended for two types of readers: social scientists who want to use the Think Aloud Method for research on cognitive processes, and knowledge engineers who wish to use the method for knowledge acquisition. The book is made accessible to both audiences with short introductions to several issues that are basic knowledge for one readership, but that are not part of the standard knowledge of their community. Introductory sections on those topics relevant to both communities are also included. The Think Aloud Method will prove a welcome addition to work in this exciting area.

Procedures in Cosmetic Dermatology Series: Cosmeceuticals E-Book-Zoe Diana Draelos 2008-10-31 This newly revised title helps you incorporate the very latest in cosmeceuticals into your busy practice. Succinctly written and lavishly illustrated, this book focuses on procedural how-to’s and offer step-by-step advice on proper techniques, pitfalls, and tricks of the trade—so you can refine and hone your skills...and expand your repertoire. Contains valuable advice from board-certified dermatologist Zoe Diana Draelos, MD to help you make the best possible recommendations for your patients. Provides a wealth of color illustrations and photographs that depict cases as they appear in practice so you can visualize techniques clearly. Includes a new chapter dedicated to the future of cosmeceuticals to keep you completely current. Features new uses for botanicals.

Trading Christmas-Debbie Macomber 2013-10-15 Trading houses. Trading towns. Trading Christmas. Emily Springer, widowed mother of one, decides to leave her hometown of Leavenworth, Washington, to spend Christmas with her daughter in Boston. Charles Brewster, history professor, seasoned curmudgeon and resident of Boston, wants to avoid Christmas altogether. Through an Internet site, they arrange to swap houses for the holiday. So Emily goes to Boston—and discovers that her daughter has gone to Florida. And Charles arrives in Leavenworth to discover a town that looks like Santa's village, full of Christmas trees, Christmas music and elves. Meanwhile, Emily's friend Faith Kerrigan travels to Leavenworth to visit her—and finds Charles the grouch...whose brother, Ray, shows up at Charles's place, to find Emily living there. Through all the mix-ups and misunderstandings, amid the chaos and confusion, romance begins to emerge in unexpected ways. Because when Christmas comes, so does love....

Eye Movements and Visual Cognition-Keith Rayner 2012-12-06 Edited by a leading scholar in the field, Eye Movements and Visual Cognitionpresents an up-to-date overview of the topics relevant to understanding the relationship between eye movements and visual cognition, particularly in relation to scene perception and reading. Cognitive psychologists, neuropsychologists, educational psychologists, and reading specialists will find this volume to be an authoritative source of state-of-the art research in this rapidly expanding area of study.

Algorithms Unlocked-Thomas H. Cormen 2013-03-01 For anyone who has ever wondered how computers solve problems, an engagingly written guide for nonexperts to the basics of computer algorithms. Have you ever wondered how your GPS can find the fastest way to your destination, selecting one route from seemingly countless possibilities in mere seconds? How your credit card account number is protected when you make a purchase over the Internet? The answer is algorithms. And how do these mathematical formulations translate themselves into your GPS, your laptop, or your smart phone? This book offers an engagingly written guide to the basics of computer algorithms. In Algorithms Unlocked, Thomas Cormen—coauthor of the leading college textbook on the subject—provides a general explanation, with limited mathematics, of how algorithms enable computers to solve problems. Readers will learn what computer algorithms are, how to describe them, and how to evaluate them. They will discover simple ways to search for information in a computer; methods for rearranging information in a computer into a prescribed order (“sorting”); how to solve basic problems that can be modeled in a computer with a mathematical structure called a “graph” (useful for modeling road networks, dependencies among tasks, and financial relationships); how to solve problems that ask questions about strings of characters such as DNA structures; the basic principles behind cryptography; fundamentals of data compression; and even that there are some problems that no one has figured out how to solve on a computer in a reasonable amount of time.

Programming Pearls-Jon Bentley 2016-04-21 When programmers list their favorite books, Jon Bentley’s collection of programming pearls is commonly included among the classics. Just as natural pearls grow from grains of sand that irritate oysters, programming pearls have grown from real problems that have irritated real programmers. With origins beyond solid engineering, in the realm of insight and creativity, Bentley’s pearls offer unique and clever solutions to those nagging problems. Illustrated by programs designed as much for fun as for instruction, the book is filled with lucid and witty descriptions of practical programming techniques and fundamental design principles. It is not at all surprising that Programming Pearls has been so highly valued by programmers at every level of experience. In this revision, the first in 14 years, Bentley has substantially updated his essays to reflect current programming methods and environments. In addition, there are three new essays on testing, debugging, and timing set representations string problems All the original programs have been rewritten, and an equal amount of new code has been generated. Implementations of all the programs, in C or C++, are now available on the Web. What remains the same in this new edition is Bentley’s focus on the hard core of programming problems and his delivery of workable solutions to those problems. Whether you are new to Bentley’s classic or are revisiting his work for some fresh insight, the book is sure to make your own list of favorites.

The Power of Praying-Stormie Omartian 2004 Bestselling author Stormie Omartian’s guidance for a godly, prayer-infused life is gathered in this attractive book created for women graduates. Selections from her titles "Just Enough Light for the Step I'm On" and "The Power of a Praying(R) Woman "are woven together to provide readers with a meaningful resource of encouragement, inspiration, and prayer. More than 120 devotions lead graduates to communicate with God about: moving into the future with hope relying on His strength for challenges ahead defining success God's way trusting His will when experience uncertainty seeking an abundant, godly life Graduates of any age will be blessed by this exploration of God's promises that will lead them into tomorrow with confidence.

Aircraft and Rotorcraft System Identification-Mark Brian Tischler 2006-01-01 Although many books have been written on the theory of system identification, few are available that provide a complete engineering treatment of system identification and how to successfully apply it to flight vehicles. This book presents proven methods, practical guidelines, and real-world flight-test results for a wide range of state-of-the-art flight vehicles, from small uncrewed aerial vehicles (UAVs) to large manned aircraft/rotorcraft.

The Algorithm Design Manual-Steven S Skiena 2009-04-05 This newly expanded and updated second edition of the best-selling classic continues to take the "mystery" out of designing algorithms, and analyzing their efficacy and efficiency. Expanding on the first edition, the book now serves as the primary textbook of choice for algorithm design courses while maintaining its status as the premier practical reference guide to algorithms for programmers, researchers, and students. The reader-friendly Algorithm Design Manual provides straightforward access to combinatorial algorithms technology, stressing design over analysis. The first part, Techniques, provides accessible instruction on methods for designing and analyzing computer algorithms. The second part, Resources, is intended for browsing and reference, and comprises the catalog of algorithmic resources, implementations and an extensive bibliography. NEW to the second edition: • Doubles the tutorial material and exercises over the first edition • Provides full online support for lecturers, and a completely updated and improved website component with lecture slides, audio and video • Contains a unique catalog identifying the 75 algorithmic problems that arise most often in practice, leading the reader down the right path to solve them • Includes several NEW "war stories" relating experiences from real-world applications • Provides up-to-date links leading to the very best algorithm implementations available in C, C++, and Java

From Mathematics to Generic Programming-Alexander A. Stepanov 2014-11-13 In this substantive yet accessible book, pioneering software designer Alexander Stepanov and his colleague Daniel Rose illuminate the principles of generic programming and the mathematical concept of abstraction on which it is based, helping you write code that is both simpler and more powerful. If you’re a reasonably proficient programmer who can think logically, you have all the background you’ll need. Stepanov and Rose introduce the relevant abstract algebra and number theory with exceptional clarity. They carefully explain the problems mathematicians first needed to solve, and then show how these mathematical solutions translate to generic programming and the creation of more effective and elegant code. To demonstrate the crucial role these mathematical principles play in many modern applications, the authors show how to use these results and generalized algorithms to implement a real-world public-key cryptosystem. As you read this book, you’ll master the thought processes necessary for effective programming and learn how to generalize narrowly conceived algorithms to widen their usefulness without losing efficiency. You’ll also gain deep insight into the value of mathematics to programming—insight that will prove invaluable no matter what programming languages and paradigms you use. You will learn about How to generalize a four thousand-year-old algorithm, demonstrating indispensable lessons about clarity and efficiency Ancient paradoxes, beautiful theorems, and the productive tension between continuous and discrete A simple algorithm for finding greatest common divisor (GCD) and modern abstractions that build on it Powerful mathematical approaches to abstraction How abstract algebra provides the idea at the heart of generic programming Axioms, proofs, theories, and models: using mathematical techniques to organize knowledge about your algorithms and data structures Surprising subtleties of simple programming tasks and what you can learn from them How practical implementations can exploit theoretical knowledge

Applied Chemoinformatics-Thomas Engel 2018-06-05 Edited by world-famous pioneers in chemoinformatics, this is a clearly structured and applications-oriented approach to the topic, providing up-to-date and focused information on the wide range of applications in this exciting field. The authors explain methods and software tools, such that the reader will not only learn the basics but also how to use the different software packages available. Experts describe applications in such different fields as structure-spectra correlations, virtual screening, prediction of active sites, library design, the prediction of the properties of chemicals, the development of new cosmetics products, quality control in food, the design of new materials with improved properties, toxicity modeling, assessment of the risk of chemicals, and the control of chemical processes. The book is aimed at advanced students as well as lectures but also at scientists that want to learn how chemoinformatics could assist them in solving their daily scientific tasks. Together with the corresponding textbook Chemoinformatics - Basic Concepts and Methods (ISBN 9783527331093) on the fundamentals of chemoinformatics readers will have a comprehensive overview of the field.

Diatom Nanotechnology-Dusan Losic 2017-10-28 A comprehensive overview of the unique porous silica structure of diatoms, their mechanism of formation, properties and applications.

Algorithms in C++-Robert Sedgewick 2001-12 This edition is completely rewritten with substantial new material and additional exercises.

Psychology of Reading-Keith Rayner 2012 Reading is a highly complex skill that is prerequisite to success in many societies in which a great deal of information is communicated in written form. Since the 1970s, much has been learned about the reading process from research by cognitive psychologists. This book summarizes that important work and puts it into a coherent framework. The book’s central theme is how readers go about extracting information from the printed page and comprehending the text. Like its predecessor, this thoroughly updated 2nd Edition encompasses all aspects of the psychology of reading with chapters on writing systems, word recognition, the work of the eyes during reading, inner speech, sentence processing, discourse processing, learning to read, dyslexia, individual differences and speed reading. Psychology of Reading, 2nd Edition, is essential reading for undergraduates, graduates, and researchers in cognitive psychology and could be used as a core textbook on courses on the psychology of reading and related topics. In addition, the clear writing style makes the book accessible to people without a background in psychology but who have a personal or professional interest in the process of reading.

The White Mirror-Elsa Hart 2016-09-06 "Li Du, an imperial librarian and former exile in 18th century China, is now an independent traveler. He is journeying with a trade caravan bound for Lhasa when a detour brings them to a valley hidden between mountain passes. On the icy planks of a wooden bridge, a monk sits in contemplation. Closer inspection reveals that the monk is dead, apparently of a self-inflicted wound ... When the rain turns to snow, the caravan is forced to seek hospitality from the local lord while they wait for the storm to pass. The dead monk, Li Du soon learns, was a reclusive painter. According to the family, his bizarre suicide is not surprising, given his obsession with the demon world. But Li Du is convinced that all is not as it seems"--

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