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Mental (Dis)Order in Later Medieval Europe 2014-03-13 Mental (Dis)order in the Late Middle Ages sketches the boundaries between mental, social and physical order and various states of disorder – unexpected mood swings, fury, melancholy, stress, insomnia, and demonic influence – and focuses on the interaction between lay and elite cultures.

Practical Statistics for Data Scientists Peter Bruce 2017-05-10 Statistical methods are a key part of data science, yet very few data scientists have any formal statistics training. Courses and books on basic statistics rarely cover the topic from a data science perspective. This practical guide explains how to apply various statistical methods to data science, tells you how to avoid their misuse, and gives you advice on what's important and what's not. Many data science resources incorporate statistical methods but lack a deeper statistical perspective. If you're familiar with the R programming language, and have some exposure to statistics, this quick reference bridges the gap in an accessible, readable format. With this book, you'll learn: Why exploratory data analysis is a key preliminary step

in data science How random sampling can reduce bias and yield a higher quality dataset, even with big data How the principles of experimental design yield definitive answers to questions How to use regression to estimate outcomes and detect anomalies Key classification techniques for predicting which categories a record belongs to Statistical machine learning methods that “learn” from data Unsupervised learning methods for extracting meaning from unlabeled data

Database Systems: The Complete Book Hector Garcia-Molina 2008

Understanding Light Microscopy Jeremy Sanderson 2019-03-04 Introduces readers to the enlightening world of the modern light microscope There have been rapid advances in science and technology over the last decade, and the light microscope, together with the information that it gives about the image, has changed too. Yet the fundamental principles of setting up and using a microscope rests upon unchanging physical principles that have been understood for years. This informative, practical, full-colour guide fills the gap between specialised edited texts on detailed research topics, and introductory books, which concentrate on an optical approach

to the light microscope. It also provides comprehensive coverage of confocal microscopy, which has revolutionised light microscopy over the last few decades. Written to help the reader understand, set up, and use the often very expensive and complex modern research light microscope properly, *Understanding Light Microscopy* keeps mathematical formulae to a minimum—containing and explaining them within boxes in the text. Chapters provide in-depth coverage of basic microscope optics and design; ergonomics; illumination; diffraction and image formation; reflected-light, polarised-light, and fluorescence microscopy; deconvolution; TIRF microscopy; FRAP & FRET; super-resolution techniques; biological and materials specimen preparation; and more. Gives a didactic introduction to the light microscope Encourages readers to use advanced fluorescence and confocal microscopes within a research institute or core microscopy facility Features full-colour illustrations and workable practical protocols

Understanding Light Microscopy is intended for any scientist who wishes to understand and use a modern light microscope. It is also ideal as supporting material for a formal taught course, or for individual students to learn the key aspects of light microscopy through their own study.

Digital Soil Assessments and Beyond Budiman Minasny 2012-07-24 Digital soil assessments and beyond contains papers presented at the 5th Global Workshop on Digital Soil Mapping, held 10-13 April 2012 at the University

of Sydney, Australia. The contributions demonstrate the latest developments in digital soil mapping as a discipline with a special focus on the use of map products to drive policy decisions particularly on climate change and food, water and soil security. The workshop and now this resulting publication have better united formerly disparate subdisciplines in soil science: pedology (study of the formation, distribution and potential use of soils) and pedometrics (quantitative and statistical analysis of soil variation in space and time). This book compiles papers covering a range of topics: digital soil assessment, digital soil modelling, operational soil mapping, soil and environmental covariates, soil sampling and monitoring and soil information modelling, artificial intelligence and cyber-infrastructure, and GlobalSoilMap. Digital soil assessments and beyond aims to encourage new mapping incentives and stimulate new ideas to make digital soil mapping practicable from local to national and ultimately global scales.

National Education Technology Plan Arthur P. Hershaft 2011 Education is the key to America's economic growth and prosperity and to our ability to compete in the global economy. It is the path to higher earning power for Americans and is necessary for our democracy to work. It fosters the cross-border, cross-cultural collaboration required to solve the most challenging problems of our time. The National Education Technology Plan

2010 calls for revolutionary transformation. Specifically, we must embrace innovation and technology which is at the core of virtually every aspect of our daily lives and work. This book explores the National Education Technology Plan which presents a model of learning powered by technology, with goals and recommendations in five essential areas: learning, assessment, teaching, infrastructure and productivity.

Commercial Aviation Safety, Sixth Edition Stephen K. Cusick 2017-05-12
Up-To-Date Coverage of Every Aspect of Commercial Aviation Safety
Completely revised edition to fully align with current U.S. and international regulations, this hands-on resource clearly explains the principles and practices of commercial aviation safety—from accident investigations to Safety Management Systems. *Commercial Aviation Safety, Sixth Edition*, delivers authoritative information on today's risk management on the ground and in the air. The book offers the latest procedures, flight technologies, and accident statistics. You will learn about new and evolving challenges, such as lasers, drones (unmanned aerial vehicles), cyberattacks, aircraft icing, and software bugs. Chapter outlines, review questions, and real-world incident examples are featured throughout. Coverage includes: • ICAO, FAA, EPA, TSA, and OSHA regulations • NTSB and ICAO accident investigation processes • Recording and reporting of safety data • U.S. and international aviation accident statistics

- Accident causation models
- The Human Factors Analysis and Classification System (HFACS)
- Crew Resource Management (CRM) and Threat and Error Management (TEM)
- Aviation Safety Reporting System (ASRS) and Flight Data Monitoring (FDM)
- Aircraft and air traffic control technologies and safety systems
- Airport safety, including runway incursions
- Aviation security, including the threats of intentional harm and terrorism
- International and U.S. Aviation Safety Management Systems Databases Illuminated Catherine Ricardo 2011-03-03 Integrates database theory with a practical approach to database design and implementation. From publisher description.

ISE Database System Concepts Abraham Silberschatz 2019-02-28
Database System Concepts by Silberschatz, Korth and Sudarshan is now in its 7th edition and is one of the cornerstone texts of database education. It presents the fundamental concepts of database management in an intuitive manner geared toward allowing students to begin working with databases as quickly as possible. The text is designed for a first course in databases at the junior/senior undergraduate level or the first year graduate level. It also contains additional material that can be used as supplements or as introductory material for an advanced course. Because the authors present concepts as intuitive descriptions, a familiarity with basic data structures, computer organization, and a high-level

programming language are the only prerequisites. Important theoretical results are covered, but formal proofs are omitted. In place of proofs, figures and examples are used to suggest why a result is true.

Murach's MySQL Joel Murach 2015 This practical, hands-on tutorial/reference/guide to MySQL is perfect for beginners, but it also works for experienced developers who are not getting the most from MySQL. As you would expect, this book shows how to code all of the essential SQL statements for creating and working with a MySQL database. But beyond that, this book also shows how to design a database, including how to use the graphical MySQL Workbench to create an EER model. It shows how to take advantage of relatively new MySQL features such as foreign keys, transactions, stored procedures, stored functions, triggers, and events. It even presents a starting set of skills for a database administrator (DBA), including how to secure and back up databases. And like all Murach books, it uses the distinctive "paired pages" format, which breaks the material into manageable skills to speed up both learning and reference. A great help for MySQL users at any level.

The Independent Woman Simone De Beauvoir 2018-11-06 "Like man, woman is a human being." When *The Second Sex* was first published in Paris in 1949—groundbreaking, risqué, brilliantly written and strikingly modern—it provoked both outrage and inspiration. *The Independent*

Woman contains three key chapters of Beauvoir's masterwork, which illuminate the feminine condition and identify practical social reforms for gender equality. It captures the essence of the spirited manifesto that switched on light bulbs in the heads of a generation of women and continues to exert profound influence on feminists today.

Data Mining for the Masses, Third Edition Matthew North 2018-09-05

Some say we live in the Information Age; others, the Social Age; and still others, the Big Data Age. Regardless of what name we give it, we live in an age that generates monumental amounts of data—in all different kinds of formats. In business, and in our personal lives, we use smartphones and tablets, web sites and watches; with apps and interfaces to shop, learn, entertain and inform. Businesses increasingly use technology to interact with consumers to provide marketing, customer service, product information and more. All of this technological activity generates data, and we're increasingly good at gathering, storing and analyzing it. Data mining can help to identify interesting patterns and messages that exist in data, often hidden beneath the surface. In this modern age of information systems, it is easier than ever before to extract meaning from data. From classification to prediction, data mining can help. In *Data Mining for the Masses, Third Edition*, professor Matt North—a former risk analyst and software engineer at eBay—uses simple examples and clear explanations

with free, powerful software tools to teach you the basics of data mining. In this Third Edition, implementations of these examples are offered in current versions of the RapidMiner software, and in the increasingly popular R Statistical Package. You've got more data than ever before and you know it's got value, if only you can figure out how to get to it. This book can show you how. Let's start digging!

STRUCTURED COMPUTER ORGANIZATION 1996

The Craft of Research, 2nd edition Wayne C. Booth 2008-04-15 Since 1995, more than 150,000 students and researchers have turned to *The Craft of Research* for clear and helpful guidance on how to conduct research and report it effectively. Now, master teachers Wayne C. Booth, Gregory G. Colomb, and Joseph M. Williams present a completely revised and updated version of their classic handbook. Like its predecessor, this new edition reflects the way researchers actually work: in a complex circuit of thinking, writing, revising, and rethinking. It shows how each part of this process influences the others and how a successful research report is an orchestrated conversation between a researcher and a reader. Along with many other topics, *The Craft of Research* explains how to build an argument that motivates readers to accept a claim; how to anticipate the reservations of thoughtful yet critical readers and to respond to them appropriately; and how to create introductions and conclusions that answer

that most demanding question, "So what?" Celebrated by reviewers for its logic and clarity, this popular book retains its five-part structure. Part 1 provides an orientation to the research process and begins the discussion of what motivates researchers and their readers. Part 2 focuses on finding a topic, planning the project, and locating appropriate sources. This section is brought up to date with new information on the role of the Internet in research, including how to find and evaluate sources, avoid their misuse, and test their reliability. Part 3 explains the art of making an argument and supporting it. The authors have extensively revised this section to present the structure of an argument in clearer and more accessible terms than in the first edition. New distinctions are made among reasons, evidence, and reports of evidence. The concepts of qualifications and rebuttals are recast as acknowledgment and response. Part 4 covers drafting and revising, and offers new information on the visual representation of data. Part 5 concludes the book with an updated discussion of the ethics of research, as well as an expanded bibliography that includes many electronic sources. The new edition retains the accessibility, insights, and directness that have made *The Craft of Research* an indispensable guide for anyone doing research, from students in high school through advanced graduate study to businesspeople and government employees. The authors demonstrate

convincingly that researching and reporting skills can be learned and used by all who undertake research projects. New to this edition: Extensive coverage of how to do research on the internet, including how to evaluate and test the reliability of sources New information on the visual representation of data Expanded bibliography with many electronic sources

Java Illuminated Anderson 2018-01-15 Written for the one- to three-term introductory programming course, the fifth edition of Java Illuminated provides learners with an interactive, user-friendly approach to learning the Java programming language. Comprehensive but accessible, the text takes a progressive approach to object-oriented programming, allowing students to build on established skills to develop new and increasingly complex classes. Java Illuminated follows an activity-based active learning approach that ensures student engagement and interest.

Data Analysis Devinderjit Sivia 2006-06-02 One of the strengths of this book is the author's ability to motivate the use of Bayesian methods through simple yet effective examples. - Katie St. Clair MAA Reviews.

Balthazar Kristen Collins 2023-04-04 This abundantly illustrated book examines the figure of Balthazar, one of the biblical magi, and explains how and why he came to be depicted as a Black African king. According to the Gospel of Matthew, magi from the East, following a star, traveled to

Jerusalem bearing precious gifts for the infant Jesus. The magi were revered as wise men and later as kings. Over time, one of the three came to be known as Balthazar and to be depicted as a Black man. Balthazar was familiar to medieval Europeans, appearing in paintings, manuscript illuminations, mosaics, carved ivories, and jewelry. But the origin story of this fascinating character uncovers intricate ties between Europe and Africa, including trade and diplomacy as well as colonization and enslavement. In this book, experts in the fields of Ethiopian, West African, Nubian, and Western European art explore the representation of Balthazar as a Black African king. They examine exceptional art that portrays the European fantasy of the Black magus while offering clues about the very real Africans who may have inspired these images. Along the way, the authors chronicle the Black presence in premodern Europe, where free and enslaved Black people moved through public spaces and courtly circles. The volume's lavish illustrations include selected works by contemporary artists who creatively challenge traditional depictions of Black history.

Zeitschrift Für Kristallographie 2007

Speculative Everything Anthony Dunne 2013-12-06 How to use design as a tool to create not only things but ideas, to speculate about possible futures. Today designers often focus on making technology easy to use,

sexy, and consumable. In *Speculative Everything*, Anthony Dunne and Fiona Raby propose a kind of design that is used as a tool to create not only things but ideas. For them, design is a means of speculating about how things could be—to imagine possible futures. This is not the usual sort of predicting or forecasting, spotting trends and extrapolating; these kinds of predictions have been proven wrong, again and again. Instead, Dunne and Raby pose “what if” questions that are intended to open debate and discussion about the kind of future people want (and do not want).

Speculative Everything offers a tour through an emerging cultural landscape of design ideas, ideals, and approaches. Dunne and Raby cite examples from their own design and teaching and from other projects from fine art, design, architecture, cinema, and photography. They also draw on futurology, political theory, the philosophy of technology, and literary fiction. They show us, for example, ideas for a solar kitchen restaurant; a flypaper robotic clock; a menstruation machine; a cloud-seeding truck; a phantom-limb sensation recorder; and devices for food foraging that use the tools of synthetic biology. Dunne and Raby contend that if we speculate more—about everything—reality will become more malleable. The ideas freed by speculative design increase the odds of achieving desirable futures.

Algorithms Illuminated (Part 4) Tim Roughgarden 2020-07-20

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

Mindstorms Seymour A Papert 2020-10-06 In this revolutionary book, a renowned computer scientist explains the importance of teaching children the basics of computing and how it can prepare them to succeed in the ever-evolving tech world. Computers have completely changed the way we teach children. We have Mindstorms to thank for that. In this book, pioneering computer scientist Seymour Papert uses the invention of LOGO, the first child-friendly programming language, to make the case for the value of teaching children with computers. Papert argues that children are more than capable of mastering computers, and that teaching computational processes like de-bugging in the classroom can change the way we learn everything else. He also shows that schools saturated with technology can actually improve socialization and interaction among students and between students and teachers. Technology changes every day, but the basic ways that computers can help us learn remain. For thousands of teachers and parents who have sought creative ways to help children learn with computers, Mindstorms is their bible.

Membrane Biological Reactors: Theory, Modeling, Design, Management and Applications to Wastewater Reuse - Second Edition Faisal I. Hai 2018-10-15 The MBR market continues to experience a massive growth. The best practice in the field is constantly changing and unique quality

requirements and management issues are regularly emerging. The second edition of *Membrane Biological Reactors: Theory, Modeling, Design, Management and Applications to Wastewater Reuse* comprehensively covers the salient features and emerging issues associated with the MBR technology. The book provides thorough coverage starting from biological aspects and fundamentals of membranes, via modeling and design concepts, to practitioners' perspective and good application examples. In the second edition, the chapters have been updated to cover the recently emerged issues. Particularly, the book presents the current status of the technology including market drivers/ restraints and development trend. Process fundamentals (both the biological and membrane components) have received in-depth coverage in the new edition. A new chapter has been added to provide a stronger focus on reuse applications in general and the decisive role of MBR in the entire reuse chain. The second edition also comes with a new chapter containing practical design problems to complement the concepts communicated throughout the book. Other distinguishing features of the new edition are coverage of novel developments and hybrid processes for specialised wastewaters, energy efficiency and sustainability of the process, aspects of MBR process automation and recent material on case studies. The new edition is a valuable reference to the academic and professional community and

suitable for undergraduate and postgraduate teaching in Environmental Engineering, Chemical Engineering and Biotechnology.

Powder Diffraction 1992 An international journal of materials characterization.

Illuminae Amie Kaufman 2015-10-20 For fans of Marie Lu comes the first book in an epic series that bends the sci-fi genre into a new dimension. “A truly beautiful novel that redefines the form.” –Victoria Aveyard, bestselling author of *Red Queen* This morning, Kady thought breaking up with Ezra was the hardest thing she’d have to do. This afternoon, her planet was invaded. The year is 2575, and two rival megacorporations are at war over a planet that’s little more than a speck at the edge of the universe. Now with enemy fire raining down on them, Kady and Ezra—who are barely even talking to each other—are forced to evacuate with a hostile warship in hot pursuit. But their problems are just getting started. A plague has broken out and is mutating with terrifying results; the fleet’s AI may actually be their enemy; and nobody in charge will say what’s really going on. As Kady hacks into a web of data to find the truth, it’s clear the only person who can help her is the ex-boyfriend she swore she’d never speak to again. Told through a fascinating dossier of hacked documents—including emails, maps, files, IMs, medical reports, interviews, and more—*Illuminae* is the first book in a heart-stopping trilogy about lives

interrupted, the price of truth, and the courage of everyday heroes. “Prepare yourselves for *Illuminae*.” –EW.com “[Y]ou’re not in for an ordinary novel experience. . . .” –Bustle.com “A truly interactive experience. . . . A fantastically fun ride.” –MTV.com “[O]ut-of-this-world awesome.” –Kirkus Reviews, starred “[...stylistically mesmerizing.” –Publishers Weekly, starred “[A]n arresting visual experience.” –Booklist, starred “[A] game-changer.” –Shelf Awareness, starred “Brace yourself. You’re about to be immersed in a mindscape that you’ll never want to leave.” –Marie Lu, bestselling author of the Legend trilogy “Genre: Undefinable. Novel: Unforgettable.” –Kami Garcia, bestselling coauthor of *Beautiful Creatures* & author of *Unbreakable* “An exuberant mix of space opera, romance, zombies, hackers, and political thrills.” –Scott Westerfeld, bestselling author of *Zeroes and Uglies* “Stunningly creative. Smart, funny, and romantic.” –Veronica Rossi, bestselling author of *Under the Never Sky* “This is one of those rare books that will truly keep your heart pounding.” –Beth Revis, bestselling author of *Across the Universe* “This book is xxxxx awesome.” –Laini Taylor, bestselling author of *Daughter of Smoke and Bone*

Frontiers in Seafloor Geodesy Ryota Hino 2021-11-01

[Mastering Data Warehouse Design](#) Claudia Imhoff 2003-08-19 A cutting-edge response to Ralph Kimball's challenge to the data warehouse

community that answers some tough questions about the effectiveness of the relational approach to data warehousing. Written by one of the best-known exponents of the Bill Inmon approach to data warehousing.

Addresses head-on the tough issues raised by Kimball and explains how to choose the best modeling technique for solving common data warehouse design problems. Weighs the pros and cons of relational vs. dimensional modeling techniques. Focuses on tough modeling problems, including creating and maintaining keys and modeling calendars, hierarchies, transactions, and data quality.

Expert MySQL Charles Bell 2007-04-01 MySQL remains one of the hottest open source database technologies. As the database has evolved into a product competitive with proprietary counterparts like Oracle and IBM DB2, MySQL has found favor with large scale corporate users who require high-powered features and performance. *Expert MySQL* is the first book to delve deep into the MySQL architecture, showing users how to make the most of the database through creation of custom storage handlers, optimization of MySQL's query execution, and use of the embedded server product. This book will interest users deploying MySQL in high-traffic environments and in situations requiring minimal resource allocation.

The Praeger International Handbook of Special Education, Volumes 1, 2, and 3 Michael L. Wehmeyer and James R. Patton

Practical SQL Anthony DeBarros 2018-05-01 Practical SQL is an approachable and fast-paced guide to SQL (Structured Query Language), the standard programming language for defining, organizing, and exploring data in relational databases. The book focuses on using SQL to find the story your data tells, with the popular open-source database PostgreSQL and the pgAdmin interface as its primary tools. You'll first cover the fundamentals of databases and the SQL language, then build skills by analyzing data from the U.S. Census and other federal and state government agencies. With exercises and real-world examples in each chapter, this book will teach even those who have never programmed before all the tools necessary to build powerful databases and access information quickly and efficiently. You'll learn how to: - Create databases and related tables using your own data - Define the right data types for your information - Aggregate, sort, and filter data to find patterns - Use basic math and advanced statistical functions - Identify errors in data and clean them up - Import and export data using delimited text files - Write queries for geographic information systems (GIS) - Create advanced queries and automate tasks. Learning SQL doesn't have to be dry and complicated. Practical SQL delivers clear examples with an easy-to-follow approach to teach you the tools you need to build and manage your own databases. This book uses PostgreSQL, but the SQL syntax is applicable

to many database applications, including Microsoft SQL Server and MySQL.

Computer Science Illuminated Nell Dale 2014-12-31 Each new print copy includes Navigate 2 Advantage Access that unlocks a comprehensive and interactive eBook, student practice activities and assessments, a full suite of instructor resources, and learning analytics reporting tools. Fully revised and updated, the Sixth Edition of the best-selling text *Computer Science Illuminated* retains the accessibility and in-depth coverage of previous editions, while incorporating all-new material on cutting-edge issues in computer science. Authored by the award-winning Nell Dale and John Lewis, *Computer Science Illuminated*'s unique and innovative layered approach moves through the levels of computing from an organized, language-neutral perspective. Designed for the introductory computing and computer science course, this student-friendly Sixth Edition provides students with a solid foundation for further study, and offers non-majors a complete introduction to computing. Key Features of the Sixth Edition include: Access to Navigate 2 online learning materials including a comprehensive and interactive eBook, student practice activities and assessments, learning analytics reporting tools, and more Completely revised sections on HTML and CSS Updates regarding Top Level Domains, Social Networks, and Google Analytics All-new section on

Internet management, including ICANN control and net neutrality New design, including fully revised figures and tables New and updated Did You Know callouts are included in the chapter margins New and revised Ethical Issues and Biographies throughout emphasize the history and breadth of computing Available in our customizable PUBLISH platform A collection of programming language chapters are available as low-cost bundling options. Available chapters include: Java, C++, Python, Alice, SQL, VB.NET, RUBY, Perl, Pascal, and JavaScript. With Navigate 2, technology and content combine to expand the reach of your classroom. Whether you teach an online, hybrid, or traditional classroom-based course, Navigate 2 delivers unbeatable value. Experience Navigate 2 today at www.jblnavigate.com/2

Statistical Methods for Psychology David C. Howell 2012-01-01
STATISTICAL METHODS FOR PSYCHOLOGY surveys the statistical techniques commonly used in the behavioral and social sciences, particularly psychology and education. To help students gain a better understanding of the specific statistical hypothesis tests that are covered throughout the text, author David Howell emphasizes conceptual understanding. This Eighth Edition continues to focus students on two key themes that are the cornerstones of this book's success: the importance of looking at the data before beginning a hypothesis test, and the importance

of knowing the relationship between the statistical test in use and the theoretical questions being asked by the experiment. New and expanded topics--reflecting the evolving realm of statistical methods--include effect size, meta-analysis, and treatment of missing data. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Data Preparation for Data Mining Dorian Pyle 1999-03-22 This book focuses on the importance of clean, well-structured data as the first step to successful data mining. It shows how data should be prepared prior to mining in order to maximize mining performance.

Introduction to Applied Linear Algebra Stephen Boyd 2018-06-07 A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples.

R in a Nutshell Joseph Adler 2012-09-26 If you're considering R for statistical computing and data visualization, this book provides a quick and practical guide to just about everything you can do with the open source R language and software environment. You'll learn how to write R functions and use R packages to help you prepare, visualize, and analyze data.

Author Joseph Adler illustrates each process with a wealth of examples from medicine, business, and sports. Updated for R 2.14 and 2.15, this second edition includes new and expanded chapters on R performance,

the ggplot2 data visualization package, and parallel R computing with Hadoop. Get started quickly with an R tutorial and hundreds of examples Explore R syntax, objects, and other language details Find thousands of user-contributed R packages online, including Bioconductor Learn how to use R to prepare data for analysis Visualize your data with R's graphics, lattice, and ggplot2 packages Use R to calculate statistical tests, fit models, and compute probability distributions Speed up intensive computations by writing parallel R programs for Hadoop Get a complete desktop reference to R

Advances in Face Detection and Facial Image Analysis Michal Kawulok 2016-04-02 This book presents the state-of-the-art in face detection and analysis. It outlines new research directions, including in particular psychology-based facial dynamics recognition, aimed at various applications such as behavior analysis, deception detection, and diagnosis of various psychological disorders. Topics of interest include face and facial landmark detection, face recognition, facial expression and emotion analysis, facial dynamics analysis, face classification, identification, and clustering, and gaze direction and head pose estimation, as well as applications of face analysis.

Database Management Systems Raghu Ramakrishnan 2000 Database Management Systems provides comprehensive and up-to-date coverage of

the fundamentals of database systems. Coherent explanations and practical examples have made this one of the leading texts in the field. The third edition continues in this tradition, enhancing it with more practical material. The new edition has been reorganized to allow more flexibility in the way the course is taught. Now, instructors can easily choose whether they would like to teach a course which emphasizes database application development or a course that emphasizes database systems issues. New overview chapters at the beginning of parts make it possible to skip other chapters in the part if you don't want the detail. More applications and examples have been added throughout the book, including SQL and Oracle examples. The applied flavor is further enhanced by the two new database applications chapters.

Computer Networks Larry L. Peterson 2011-03-02 Computer Networks: A Systems Approach, Fifth Edition, explores the key principles of computer networking, with examples drawn from the real world of network and protocol design. Using the Internet as the primary example, this best-selling and classic textbook explains various protocols and networking technologies. The systems-oriented approach encourages students to think about how individual network components fit into a larger, complex system of interactions. This book has a completely updated content with expanded coverage of the topics of utmost importance to networking professionals

and students, including P2P, wireless, network security, and network applications such as e-mail and the Web, IP telephony and video streaming, and peer-to-peer file sharing. There is now increased focus on application layer issues where innovative and exciting research and design is currently the center of attention. Other topics include network design and architecture; the ways users can connect to a network; the concepts of switching, routing, and internetworking; end-to-end protocols; congestion control and resource allocation; and end-to-end data. Each chapter includes a problem statement, which introduces issues to be examined; shaded sidebars that elaborate on a topic or introduce a related advanced topic; What's Next? discussions that deal with emerging issues in research, the commercial world, or society; and exercises. This book is written for graduate or upper-division undergraduate classes in computer networking. It will also be useful for industry professionals retraining for network-related assignments, as well as for network practitioners seeking to understand the workings of network protocols and the big picture of networking. Completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, security, and applications Increased focus on application layer issues where innovative and exciting research and design is currently the center of attention Free downloadable network simulation

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Databases Illuminated Catherine M. Ricardo 2015-08-24 Databases

Illuminated, Third Edition Includes Navigate 2 Advantage Access combines database theory with a practical approach to database design and implementation. Strong pedagogical features, including accessible language, real-world examples, downloadable code, and engaging hands-on projects and lab exercises create a text with a unique combination of theory and student-oriented activities. Providing an integrated, modern approach to databases, *Databases Illuminated, Third Edition* is the essential text for students in this expanding field.

Current Developments in Glaucoma Surgery and MIGS J.R. Samples
2020-01-02 Successful interventional glaucoma remains a sought-after

goal for the glaucoma clinician for many reasons. Medical costs, compliance, and adherence remain major barriers for the treatment of our patients. A truly definitive treatment for glaucoma is most likely to be largely surgical, as it is doubtful that patients will continue to use glaucoma drugs in the future for anything other than transient lowering of intraocular pressure. In the coming era, it seems probable that neuroprotection and neurorestoration will be combined with MIGS to lower pressure. The different types of MIGS are increasing in proportion to their efficacy. To date, there are no fewer than 12 choices available to glaucoma specialists. Choice of procedure depends on the underlying anatomy as well as the patient's individual characteristics. Truthfully, the number of available surgeries depends upon their taxonomy. Most are based on the outflow system and the canal, as illustrated in this book.