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TCP / IP For Dummies Candace Leiden 2009-07-15 Packed with the latest information on TCP/IP standards and protocols TCP/IP is a hot topic, because it's the glue that holds the Internet and the Web together, and network administrators need to stay on top of the latest developments. TCP/IP For Dummies, 6th Edition, is both an introduction to the basics for beginners as well as the perfect go-to resource for TCP/IP veterans. The book includes the latest on Web protocols and new hardware, plus very timely information on how TCP/IP secures connectivity for blogging, vlogging, photoblogging, and social networking. Step-by-step instructions show you how to install and set up TCP/IP on clients and servers; build security with encryption, authentication, digital certificates, and signatures; handle new voice and mobile technologies, and much more. Transmission Control Protocol / Internet Protocol (TCP/IP) is the de facto standard transmission medium worldwide for computer-to-computer communications; intranets, private internets, and the Internet are all built on TCP/IP The book shows you how to install and configure TCP/IP and its applications on clients and servers; explains intranets, extranets, and virtual private networks (VPNs); provides step-by-step information on building and enforcing security; and covers all the newest protocols You'll learn how to use encryption, authentication, digital certificates, and signatures to set up a secure Internet credit card transaction Find practical security tips, a Quick Start Security Guide, and still more in this practical guide.

Exploring New Ways to Connect: Proceedings of the Eleventh International Mathematics Education and Society Conference David Kolloosche 2021-09-09 The book is one of three volume which contain the papers which were submitted and accepted for presentation at the Eleventh International Mathematics Education and Society Conference.

BCL-2 Family Proteins Evripidis Gavathiotis 2019

IBM zEnterprise EC12 Technical Guide Octaviano Lascu 2015-03-04 The popularity of the Internet and the affordability of IT hardware and software have resulted in an explosion of applications, architectures, and platforms. Workloads have changed. Many applications, including mission-critical ones, are deployed on various platforms, and the IBM® System z® design has adapted to this change. It takes into account a wide range of factors, including compatibility and investment protection, to match the IT requirements of an enterprise. This IBM Redbooks® publication addresses the new IBM zEnterprise® System. This system consists of the IBM zEnterprise EC12 (zEC12), an updated IBM zEnterprise Unified Resource Manager, and the IBM zEnterprise BladeCenter® Extension (zBX) Model 003. The zEC12 is designed with improved scalability, performance, security, resiliency, availability, and virtualization. The superscalar design allows the zEC12 to deliver a record level of capacity over the prior System z servers. It is powered by 120 of the world's most powerful microprocessors. These microprocessors run at 5.5 GHz and are capable of running more than 75,000 millions of instructions per second (MIPS). The zEC12 Model HA1 is estimated to provide up to 50% more total system capacity than the IBM zEnterprise 196 (z196) Model M80. The zBX Model 003 infrastructure works with the zEC12 to enhance System z virtualization and management. It does so through an integrated hardware platform that spans mainframe, IBM POWER7®, and IBM System x® technologies. Through the Unified Resource Manager, the zEnterprise System is managed as a single pool of resources, integrating system and workload management across the environment. This book provides information about the zEnterprise System and its functions, features, and associated software support. Greater detail is offered in areas relevant to technical planning. It is intended for systems engineers, consultants, planners, and anyone who wants to understand the zEnterprise System functions and plan for their usage. It is not intended as an introduction to mainframes. Readers are expected to be generally familiar with existing IBM System z® technology and terminology.

Exporting Services Arti Grover Goswami 2011-11-15 Through country case studies as well as econometric analysis, this book attempts to identify the factors that have helped developing countries succeed in exporting services. It examines strategies that have been successful as well as those that have not delivered expected results..

Inquiry in Action James H. Kessler 2005-01-01 The purpose of Inquiry in Action is to give elementary and middle school teachers a set of physical science activities to help teach the major concepts in the study of matter. The activities were developed to lend themselves to a guided-inquiry approach and to work across the range of Grades 3-8. To be effective over such a wide grade range, the activities are designed to cover basic concepts but have the flexibility to be modified by teachers through varying questioning strategies, the degree of guidance given students, and the vocabulary used. The materials for all activities are very common, safe, and inexpensive and are available at any grocery store.

A Tale of Two Vampires Katie Macalister 2012-09-04 Time isn't always on a vampire's side.... Iolanthe Tennyson has had a very bad year due in part to the very bad men in her life. So she's accepted her cousin's invitation to spend the summer in Austria to indulge her photography hobby. Rumors of a haunted forest there draw Iolanthe into the dark woods and into the eighteenth century.... Nikola Czerny is a cursed man, forced by his half brothers to live forever as a Dark One. But his miserable existence takes an intriguing turn when a strange, babbling woman is thrown in his path. Iolanthe claims to know Nikola's daughter three hundred years in the future. She also knows what fate in the form of his murderous half brothers has in store for him. If only she knew the consequences of changing the past to save one good, impossibly sexy vampire...

The Craft of International History Marc Trachtenberg 2009-02-09 This is a practical guide to the historical study of international politics. The focus is on the nuts and bolts of historical research—that is, on how to use original sources, analyze and interpret historical works, and actually write a work of history. Two appendixes provide sources sure to be indispensable for anyone doing research in this area. The book does not simply lay down precepts. It presents examples drawn from the author's more than forty years' experience as a working historian. One important chapter, dealing with America's road to war in 1941, shows in unprecedented detail how an interpretation of a major historical issue can be developed. The aim throughout is to throw open the doors of the workshop so that young scholars, both historians and political scientists, can see the sort of thought processes the historian goes through before he or she puts anything on paper. Filled with valuable examples, this is a book anyone serious about conducting historical research will want to have on the bookshelf.

Carl A. Spaatz and the Air War in Europe Richard G. Davis 1993 Biografisk fremstilling af general Carl A. Spaatz's karriere og indflydelse inden for US Army Air Force en karriere, der sluttede som Chief of Staff i det i 1947 oprettede US Air Force

Exploring Universal Basic Income Ugo Gentilini 2019-11-25 Universal basic income (UBI) is emerging as one of the most hotly debated issues in development and social protection policy. But what are the features of UBI? What is it meant to achieve? How do we know, and what don't we know, about its performance? What does it take to implement it in practice? Drawing from global evidence, literature, and survey data, this volume provides a framework to elucidate issues and trade-offs in UBI with a view to help inform choices around its appropriateness and feasibility in different contexts. Specifically, the book examines how UBI differs from or complements other social assistance programs in terms of objectives, coverage, incidence, adequacy, incentives, effects on poverty and inequality, financing, political economy, and implementation. It also reviews past and current country experiences, surveys the full range of existing policy proposals, provides original results from micro-tax benefit simulations, and sets out a range of considerations around the analytics and practice of UBI.

Robotics, Vision and Control Peter Corke 2011-09-05 The author has maintained two open-source MATLAB Toolboxes for more than 10 years: one for robotics and one for vision. The key strength of the Toolboxes provide a set of tools that allow the user to work with real problems, not trivial examples. For the student the book makes the algorithms accessible, the Toolbox code can be read to gain understanding, and the examples illustrate how it can be used (instant gratification in just a couple of lines of MATLAB code. The code can also be the starting point for new work, for researchers or students, by writing programs based on Toolbox functions, or modifying the Toolbox code itself. The purpose of this book is to expand on the tutorial material provided with the toolboxes, add many more examples, and to weave this into a narrative that covers robotics and computer vision separately and together. The author shows how complex problems can be decomposed and solved using just a few simple lines of code, and hopefully to inspire up and coming researchers. The topics covered are guided by the real problems observed over many years as a practitioner of both robotics and computer vision. It is written in a light but informative style, it is easy to read and absorb, and includes a lot of Matlab examples and figures. The book is a real walk through the fundamentals of robot kinematics, dynamics and joint level control, then camera models, image processing, feature extraction and epipolar geometry, and bring it all together in a visual servo system. Additional material is provided at <http://www.petercorke.com/RVC>

Learn to Program in Arduino C William P Osborne 2016-09-11 The lessons in this book offer an accessible STEM curriculum. Classes based on it are currently taught in a growing number of high school classrooms. Students and teachers alike are supported on the companion website, www.LearnCSE.com. Aided by more than 250 color photos, illustrations, and diagrams, the lessons and exercises in the book teach how to program and use the Arduino singleboard computer. In the process, the reader learns: How to program in C, the language underlying the most commonly used programming languages; How to identify and use common electronic components and sensors; How to perform electronics-specific tasks, such as creating a circuit board; How to construct, program, communicate with, and control robotic devices, including servos, LEDs, DC motors, infrared communicators, push buttons, potentiometers, NeoPixels, and H-bridges. Sample code provides starting points in each of the lessons. Through all of this, the reader is connected to career paths where these skills are in high demand. Best of all, the reader gets excited about learning how to program. LearnCSE's methods are designed for hands-on learners; they stimulate creativity as well as problem solving and critical thinking.

C4.5 J. Ross Quinlan 1993 This book is a complete guide to the C4.5 system as implemented in C for the UNIX environment. It contains a comprehensive guide to the system's use, the source code (about 8,800 lines), and implementation notes.

Oracle High Availability, Disaster Recovery, and Cloud Services YV Ravi Kumar 2019-05-16 Work with Oracle database's high-availability and disaster-management technologies. This book covers all the Oracle high-availability technologies in one place and also discusses how you configure them in engineered systems and cloud services. You will see that when you say your database is healthy, it is not limited to whether the database is performing well on day-to-day operations; rather it should also be robust and free from disasters. As a result, your database will be capable of handling unforeseen incidents and recovering from disaster with very minimal or zero downtime. Oracle High Availability, Disaster Recovery, and Cloud Services explores all the high-availability features of Oracle database, how to configure them, and best practices. After you have read this book you will have mastered database high-availability concepts such as RAC, Data Guard, OEM 13c, and engineered systems (Oracle Exadata x6/x7 and Oracle Database Appliance). What You Will Learn Master the best practices and features of Exadata and ODA Implement and monitor high availability with OEM 13c Clone databases using various methods in Oracle 12c R2 Work with the Oracle sharding features of Oracle 12c R2 Who This Book Is For Oracle database administrators

Methods in Cellular Imaging Ammasi Periasamy 2013-05-27 Advances in technology have revolutionized the development of light microscopy techniques in biomedical research, thus improving visualization of the microstructure of cells and tissues under physiological conditions. Fluorescence microscopy methods are non-contact and non-invasive and provide high spatial and temporal resolution that other laboratory techniques cannot. This well-illustrated book targets graduate students and scientists who are new to the state-of-the-art fluorescence

microscopy techniques used in biological and clinical imaging. It explains basic concepts and imaging procedures for wide-field, confocal, multiphoton excitation, fluorescence resonance energy transfer (FRET), lifetime imaging (FLIM), spectral imaging, fluorescence recovery after photobleaching (FRAP), optical tweezers, total internal reflection, high spatial resolution atomic force microscopy (AFM), and bioluminescence imaging for gene expression. The usage of these techniques in various biological applications, including calcium, pH, membrane potential, mitochondrial signaling, protein-protein interactions under various physiological conditions, and deep tissue imaging, is clearly presented. The authors describe the approaches to selecting epifluorescence microscopy, the detectors, and the image acquisition and processing software for different biological applications. Step-by-step directions on preparing different digital formats for light microscopy images on websites are also provided.

Bloodlines of the Illuminati: Fritz Springmeier 2019-03-04 The iLLamanati have emerged from hidden places of the Earth to shed light on the dark side of human endeavors by collating and publishing literature on the secrets of the Illuminati. Representing the Grand Llama, an omniscient, extradimensional light being who is channeled by our Vice-Admiral, Captain Space Kitten, the iLLamanati is organized around a cast of interstellar characters who have arrived on Earth to wage a battle for the light. Bloodlines of the Illuminati was written by Fritz Springmeier. He wrote and self-published it as a public domain .pdf in 1995. This seminal book has been republished as a three-volume set by the iLLamanati. Volume 1 has the first eight of the 13 Top Illuminati bloodlines: Astor, Bundy, Collins, DuPont, Freeman, Kennedy, Li, and Onassis. Volume 2 has the remaining five of the 13 Top Illuminati bloodlines: Rockefeller, Rothschild, Russell, Van Duyn, and Merovingian. Volume 3 has four other prominent Illuminati bloodlines: Disney, Reynolds, McDonald, and Krupps.

Challenges of Astronomy Woffhard Schlosser 1991 A unique collection of thirty experiments ranging from ancient astronomy to cosmology, each containing one or more challenges for the reader. The progression here is from the Earth outward through the solar system to the stellar and galactic realm. Topics include the shape of the sky; Stonehenge as a stone-age abacus; determining the size of the Earth; the distance of the moon, stars and planets; planetary mass, density, temperature and atmosphere; the speed of light; the nature of the quiet and active sun; photometry and spectroscopy; star clusters and variable stars; and fundamental properties of stars.

British Poetry Magazines, 1914-2000 David Miller 2006-01-01 Records the world of the Little Magazine: A world where famous authors are first found as unknowns. This title includes entries, which give details of the editors involved, publication date and other information, including lists of libraries where each can be found.

International Mathematics for the Middle Years Alan McSevery 2008 International Mathematics for the Middle Years has been developed with the international student in mind. This five-book series would be particularly beneficial to students studying International Baccalaureate MYP. All examples and exercises take an international viewpoint, giving students an opportunity to learn Mathematics with a global perspective. The content is appropriate for international curricula and will meet the needs of all middle-school students studying Mathematics.

Music Engineering Richard Brice 2001-10-01 Music Engineering is a hands-on guide to the practical aspects of electric and electronic music. It is both a compelling read and an essential reference guide for anyone using, choosing, designing or studying the technology of modern music. The technology and underpinning science are introduced through the real life demands of playing and recording, and illustrated with references to well known classic recordings to show how a particular effect is obtained thanks to the ingenuity of the engineer as well as the musician. Written by a music enthusiast and electronic engineer, this book covers the electronics and physics of the subject as well as the more subjective aspects. The second edition includes an updated Digital section including MPEG3 and fact sheets at the end of each chapter to summarise the key electronics and science. In addition to instruments and recording technology, this book covers essential kit such as microphones, sequencers, amplifiers and loudspeakers. Discover the potential of electronics and computers to transform your performances and recordings. Develop an understanding of the engineering behind state of the art instruments, amplifiers and recording equipment.

The PC Engineer's Reference Book Phil Croucher 1996

Classical Electromagnetism Jerrold Franklin 2017-10-18 This text advances from the basic laws of electricity and magnetism to classical electromagnetism in a quantum world. The treatment focuses on core concepts and related aspects of math and physics. 2016 edition.

IBM zEnterprise 196 Technical Guide Bill White 2012-03-19 The popularity of the Internet and the affordability of IT hardware and software have resulted in an explosion of applications, architectures, and platforms. Workloads have changed. Many applications, including mission-critical ones, are deployed on a variety of platforms, and the System z® design has adapted to this change. It takes into account a wide range of factors, including compatibility and investment protection, to match the IT requirements of an enterprise. The zEnterprise System consists of the IBM zEnterprise 196 central processor complex, the IBM zEnterprise Unified Resource Manager, and the IBM zEnterprise BladeCenter® Extension. The z196 is designed with improved scalability, performance, security, resiliency, availability, and virtualization. The z196 Model M80 provides up to 1.6 times the total system capacity of the z10TM EC Model E64, and all z196 models provide up to twice the available memory of the z10 EC. The zBX infrastructure works with the z196 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe, POWER7TM, and System x® technologies. Through the Unified Resource Manager, the zEnterprise System is managed as a single pool of resources, integrating system and workload management across the environment. This IBM® Redbooks® publication provides an overview of the zEnterprise System and its functions, features, and associated software support. Greater detail is offered in areas relevant to technical planning. This book is intended for systems engineers, consultants, planners, and anyone wanting to understand the zEnterprise System functions and plan for their usage. It is not intended as an introduction to mainframes. Readers are expected to be generally familiar with existing IBM System z technology and terminology. The changes to this edition are based on the System z hardware announcement dated July 12, 2011.

IBM zEnterprise 114 Technical Guide Bill White 2012-02-27 The popularity of the Internet and the affordability of IT hardware and software have resulted in an explosion of applications, architectures, and platforms. Workloads have changed. Many applications, including mission-critical ones, are deployed on a variety of platforms, and the System z® design has adapted to this change. It takes into account a wide range of factors, including compatibility and investment protection, to match the IT requirements of an enterprise. This IBM® Redbooks® publication discusses the IBM zEnterprise System, an IBM scalable mainframe server. IBM is taking a revolutionary approach by integrating separate platforms under the well-proven System z hardware management capabilities, while extending System z qualities of service to those platforms. The zEnterprise System consists of the IBM zEnterprise 114 central processor complex, the IBM zEnterprise Unified Resource Manager, and the IBM zEnterprise BladeCenter® Extension. The z114 is designed with improved scalability, performance, security, resiliency, availability, and virtualization. The z114 provides up to 18% improvement in uniprocessor speed and up to a 12% increase in total system capacity for z/OS®, z/VM®, and Linux on System z over the z10TM Business Class (BC). The zBX infrastructure works with the z114 to enhance System z virtualization and management through an integrated hardware platform that spans mainframe, POWER7TM, and System x technologies. The federated capacity from multiple architectures of the zEnterprise System is managed as a single pool of resources, integrating system and workload management across the environment through the Unified Resource Manager. This book provides an overview of the zEnterprise System and its functions, features, and associated software support. Greater detail is offered in areas relevant to technical planning. This book is intended for systems engineers, consultants, planners, and anyone wanting to understand the zEnterprise System functions and plan for their usage. It is not intended as an introduction to mainframes. Readers are expected to be generally familiar with existing IBM System z technology and terminology.

Nanoelectronics, Circuits and Communication Systems Vijay Nath 2020-04-01 This book features selected papers presented at the Fourth International Conference on Nanoelectronics, Circuits and Communication Systems (NCCS 2018). Covering topics such as MEMS and nanoelectronics, wireless communications, optical communications, instrumentation, signal processing, the Internet of Things, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications in mines, it offers a valuable resource for young scholars, researchers, and academics alike.

Hotel Front Office Management James A. Bardi 1996-08-26 This Second Edition has been updated to include a brand new chapter on yield management, plus a human resources chapter refocused to cover current trends in training, employee empowerment, and reducing turnover. In addition, you'll discover how to increase efficiency with today's hospitality technology--from electronic lock to front office equipment.

The Grace Walk Experience Steve McVey 2008-03-01 For years, Steve McVey's Grace Walk (more than 200,000 copies sold) has inspired Christians to leave behind a performance and fear-based faith to embrace a faith lived in abundance and grace. Now The Grace Walk Experience workbook helps readers move that message of hope from their heads to their hearts as they explore eight truths that have changed lives worldwide daily, interactive studies that reveal grace as much more than a doctrine ways to quit "doing" for God so that He can live through them illustrations of the wonder and miracle of faith as God intended God's Word, salvation, and evangelism with new perspective. This excellent tool for church classes, small group discussion, and individual study will lead believers to understand their identity in Christ, let go of legalism, and make room for the overflowing love, mercy, and purpose of life lived wholly in God's grace.

Agroecology Miguel A Altieri 2018-02-19 This new edition builds on the explosion of research on sustainable agriculture since the late 1980s. By separating myth from reality, Miguel Altieri extracts the key principles of sustainable agriculture and expounds on management systems that "really work." Providing case studies of sustainable rural development in developing countries, he goes beyond a mere description of practices to include data that reveal the socioeconomic and environmental impacts of alternative projects. Each chapter of Agroecology has been enriched and updated with the latest research results from around the world. New emphasis has been placed on such issues as the ecological economics of agriculture, policy changes needed for promoting sustainable agriculture, rural development in the Third World, the role of biodiversity in agriculture, and new research methodologies.

The Architecture of Computer Hardware, Systems Software, and Networking Irv Englander 2021-04-06 The Architecture of Computer Hardware, Systems Software and Networking is designed help students majoring in information technology (IT) and information systems (IS) understand the structure and operation of computers and computer-based devices. Requiring only basic computer skills, this accessible textbook introduces the basic principles of system architecture and explores current technological practices and trends using clear, easy-to-understand language. Throughout the text, numerous relatable examples, subject-specific illustrations, and in-depth case studies reinforce key learning points and show students how important concepts are applied in the real world. This fully-updated sixth edition features a wealth of new and revised content that reflects today's technological landscape. Organized into five parts, the book first explains the role of the computer in information systems and provides an overview of its components. Subsequent sections discuss the representation of data in the computer, hardware architecture and operational concepts, the basics of computer networking, system software and operating systems, and various interconnected systems and components. Students are introduced to the material using ideas already familiar to them, allowing them to gradually build upon what they have learned without being overwhelmed and develop a deeper knowledge of computer architecture.

Operation of Wastewater Treatment Plants 2004

Neural Networks for Pattern Recognition Christopher M. Bishop 1995-11-23 Readers will emerge with a rigorous statistical grounding in the theory of how to construct and train neural networks in pattern recognition' New Scientist

IoT Machine Learning Applications in Telecom, Energy, and Agriculture Puneet Mathur 2020-05-09 Apply machine learning using the Internet of Things (IoT) in the agriculture, telecom, and energy domains with case studies. This book begins by covering how to set up the software and hardware components including the various sensors to implement the case studies in Python. The case study section starts with an examination of call drop with IoT in the telecoms industry, followed by a case study on energy audit and predictive maintenance for an industrial machine, and finally covers techniques to predict cash crop failure in agribusness. The last section covers pitfalls to avoid while implementing machine learning and IoT in these domains. After reading this book, you will know how IoT and machine learning are used in the example domains and have practical case studies to use and extend. You will be able to create enterprise-scale applications using Raspberry Pi 3 B+ and Arduino Mega 2560 with Python. What You Will Learn Implement machine learning with IoT and solve problems in the telecom, agriculture,

and energy sectors with Python Set up and use industrial-grade IoT products, such as Modbus RS485 protocol devices, in practical scenarios Develop solutions for commercial-grade IoT or IIoT projects Implement case studies in machine learning with IoT from scratch Who This Book Is For Raspberry Pi and Arduino enthusiasts and data science and machine learning professionals.

z/VM and Linux Operations for z/OS System Programmers Lydia Parziale 2008-10-28 This IBM Redbooks publication discusses z/VM and Linux operations from the perspective of the z/OS programmer or system programmer. Although other books have been written about many of these topics, this book gives enough information about each topic to describe z/VM and Linux on IBM System z operations to somebody who is new to both environments. This book is intended for z/OS programmers and system programmers who are transitioning to the z/VM and Linux on System z environments and who want a translation guide for assistance. We base this book on our experiences using System z10 Enterprise Edition, z/VM version 5.3 RSU 0701, and Novell SUSE Linux Enterprise Server (SLES) 10 on System z.

International Mathematics for the Middle Years Alan McSevery 2009 This is the fourth book in the five book International Mathematics for the Middle Years series. Each full-colour student book in the series comes with an interactive student CD and includes access to online resources for both teachers and students. International Mathematics for the Middle Years has been developed with the international student in mind. This series is particularly beneficial to students studying the International Baccalaureate Middle Years Program. All examples and exercises take an international viewpoint, giving students an opportunity to learn Mathematics with a global perspective. The content is appropriate for international curricula and will meet the needs of all middle school students studying Mathematics.

Structure and Meaning in English Graeme Kennedy 2014-01-14 Structure and Meaning in English is designed to help teachers of English develop an understanding of those aspects of English which are especially relevant for learners who speak other languages. Using corpus research, Graeme Kennedy cuts to the heart of what is important in the teaching of English. The book provides pedagogically-relevant information about English at the levels of sounds, words, sentences and texts. It draws attention to those linguistic items and processes which research has shown are typically hard for learners and which lead to errors. Each chapter contains: a description of one or more aspects of English an outline of typical errors or problems for learners specific learning objectives listed at the beginning of each chapter exercises or tasks based on 'real English' taken from newspapers and other sources. discussion topics which can be worked through independently either as part of a course, or self study With answers to many of the tasks given at the back of the book, this groundbreaking work provides a comprehensive and accessible textbook on the structure and use of the language for teachers of English.

A Method for Linguistic Metaphor Identification Gerard J. Steen 2010-06-23 This book presents a complete method for the identification of metaphor in language at the level of word use. It is based on extensive methodological and empirical corpus-linguistic research in two languages, English and Dutch. The method is formulated as an explicit manual of instructions covering one chapter, the method being a development and refinement of the popular MIP procedure presented by the Pragglejaz Group in 2007. The extended version is called MIPVU, as it was developed at VU University Amsterdam. Its application is demonstrated in five case studies addressing metaphor in English news texts, conversations, fiction, and academic texts, and Dutch news texts and conversations. Two methodological chapters follow reporting a series of successful reliability tests and a series of post hoc troubleshooting exercises. The final chapter presents a first empirical analysis of the findings, and shows what this type of methodological attention can mean for research and theory.

Lightwave Technology Govind P. Agrawal 2005-08-19 The state of the art of modern lightwave system design Recent advances in lightwave technology have led to an explosion of high-speed global information systems throughout the world. Responding to the growth of this exciting new technology, Lightwave Technology provides a comprehensive and up-to-date account of the underlying theory, development, operation, and management of these systems from the perspective of both physics and engineering. The first independent volume of this two-volume set, Components and Devices, deals with the multitude of silica- and semiconductor-based optical devices. This second volume, Telecommunication Systems, helps readers understand the design of modern lightwave systems, with an emphasis on wavelength-division multiplexing (WDM) systems. * Two introductory chapters cover topics such as modulation formats and multiplexing techniques used to create optical bitstreams * Chapters 3 to 5 consider degradation of optical signals through loss, dispersion, and nonlinear impairment during transmission and its corresponding impact on system performance * Chapters 6 to 8 provide readers with strategies for managing degradation induced by amplifier noise, fiber dispersion, and various nonlinear effects * Chapters 9 and 10 discuss the engineering issues involved in the design of WDM systems and optical networks Each chapter includes problems that enable readers to engage and test their new knowledge to solve problems. A CD containing illuminating examples based on RSoft Design Group's award-winning OptSim optical communication system simulation software is included with the book to assist readers in understanding design issues. Finally, extensive, up-to-date references at the end of each chapter enable students and researchers to gather more information about the most recent technology breakthroughs and applications. With its extensive problem sets and straightforward writing style, this is an excellent textbook for upper-level undergraduate and graduate students. Research scientists and engineers working in lightwave technology will use this text as a problem-solving resource and a reference to additional research papers in the field.

Mining Query Logs Fabrizio Silvestri 2009-11 Web search engines have stored information about users in their logs since they started to operate. This information often serves many purposes. Mining Query Logs: Turning Search Usage Data into Knowledge reviews some of the most recent techniques dealing with query logs and how they can be used to enhance web search engine operations. It summarizes the basic results concerning query logs: analyses, techniques used to extract knowledge, most remarkable results, most useful applications, and open issues and possibilities that remain to be studied. It reviews fundamental and state-of-the-art techniques. In each section, even if not directly specified, it reviews and analyzes the algorithms used, and not just their results. Mining Query Logs: Turning Search Usage Data into Knowledge is dedicated to those who want to know more about how search engines are so good at "guessing" the right answers to their queries, and also how they can do so quickly

IBM zEnterprise System Technical Introduction Ivan Dobos 2014-03-31 In a smarter planet, information-centric processes are exploding in growth. The mainframe has always been the IT industry's leading platform for transaction processing, consolidated and secure data serving, and support for available enterprise-wide applications. IBM® has extended the mainframe platform to help large enterprises reshape their client experiences through information-centric computing and to deliver on key business initiatives. IBM zEnterprise® is recognized as the most reliable and trusted system, and the most secure environment for core business operations. The new zEnterprise System consists of the IBM zEnterprise EC12 (zEC12) or IBM zEnterprise BC12 (zBC12), the IBM zEnterprise Unified Resource Manager, and the IBM zEnterprise IBM BladeCenter® Extension (zBX) Model 003. This IBM Redbooks® publication describes the zEC12 and zBC12, with their improved scalability, performance, security, resiliency, availability, and virtualization. The zEnterprise System has no peer as a trusted platform that also provides the most efficient transaction processing and database management. With efficiency at scale delivering significant cost savings on core processes, resources can be freed up to focus on developing new services to drive growth. This book provides a technical overview of the zEC12, zBC12, zBX Model 003, and Unified Resource Manager. This publication is intended for IT managers, architects, consultants, and anyone else who wants to understand the elements of the zEnterprise System. For this introduction to the zEnterprise System, readers are not expected to be familiar with current IBM System z® technology and terminology.

Analytical Chemistry Jean-Michel Mermet 2004-09-03 Why settle for less when you can have the whole of Analytical Chemistry in a single book? The successful all-in-one guide to modern Analytical Chemistry is now available in a new and updated edition. From the foundations of analytical science to state-of-the-art techniques and instrumentation -- all you will ever need to know is explained here. The text covers both general analytical chemistry and instrumental analysis and may be used for most analytical chemistry courses offered today. Carefully chosen worked examples show how analytical problems can effectively be solved and how calculations should be performed. Study questions and recommended reading for further study are provided for each learning unit. The second edition has been carefully revised to keep up-to-date with advances in the technology of analytical methods in the laboratory and in the workplace, including newly written chapters on multidimensional chromatography, sensors and screening systems. With its broad scope, the text doubles as a reliable reference for virtually all analytical problems encountered during the course of study and beyond. "Analytical Chemistry will serve as an excellent text as well as a valued reference following completion of the student's course of study." Journal of Medicinal Chemistry "It is a book that should be on the shelves of all analytical chemistry and biochemistry professionals, including those who work in the areas of clinical chemistry, food chemistry and forensic chemistry." Bulletin of the World Health Organisation "The book is a must-have reference for anyone trying to understand what techniques and technologies are available for the analytical chemist today." Chemtech