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Chemical Reaction Engineering

John Wiley & Sons Chemical reaction engineering is concerned with the exploitation of chemical reactions on a commercial scale. It's goal is the successful design and operation of chemical reactors. This text emphasizes qualitative arguments, simple design methods, graphical procedures, and frequent comparison of capabilities of the major reactor types. Simple ideas are treated first, and are then extended to the more complex.

The Hymenoptera of Costa Rica

Oxford University Press on Demand The Hymenopteran order is one of the largest and most diverse insect groups, whose members range from the familiar ants, bees, and wasps to a huge variety of predatory, parasitic, and plant-feeding insects. They can be any size from the tiny 0.2mm fairy flies to spider-hunting wasps with wingspans of more than 10cm and are of immense significance, primarily as pollinators but also because of their increasing use as biological control agents. This is the first time that comprehensive coverage of the hymeopterous fauna of a tropical country has been published.

Operating Systems

Internals and Design Principles

Prentice Hall For a one-semester undergraduate course in operating systems for computer science, computer engineering, and electrical engineering majors. Winner of the 2009 Textbook Excellence Award from the Text and Academic Authors Association (TAA)! Operating Systems: Internals and Design Principles is a comprehensive and unified introduction to operating systems. By using several innovative tools, Stallings makes it possible to understand critical core concepts that can be fundamentally challenging. The new edition includes the implementation of web based animations to aid visual learners. At key points in the book, students are directed to view an animation and then are provided with assignments to alter the animation input and analyze the results. The concepts are then enhanced and supported by end-of-chapter case studies of UNIX, Linux and Windows Vista. These provide students with a solid understanding of the key mechanisms of modern operating systems and the types of design tradeoffs and decisions involved in OS design. Because they are embedded into the text as end of chapter material, students are able to apply them right at the point of discussion. This approach is equally useful as a basic reference and as an up-to-date survey of the state of the art.

Revolution

Scribe Publications The bestselling memoir by France's president, Emmanuel Macron. Some believe that our country is in decline, that the worst is yet to come, that our civilisation is withering away. That only isolation or civil strife are on our horizon. That to protect ourselves from the great transformations taking place around the globe, we should go back in time and apply the recipes of the last century. Others imagine that France can continue on its slow downward slide. That the game of political juggling — first the Left, then the Right — will allow us breathing space. The same faces and the same people who have been around for so long. I am convinced that they are all wrong. It is their models, their recipes, that have simply failed. France as a whole has not failed. In Revolution, Emmanuel Macron, the youngest president in the history of France, reveals his personal story and his inspirations, and discusses his vision of France and its future in a new world that is undergoing a 'great transformation' that has not been known since the Renaissance. This is a remarkable book that seeks to lay the foundations for a new society — a compelling testimony and statement of values by an important political leader who has become the flag-bearer for a new kind of politics.

Music Scenes

Local, Translocal and Virtual

Vanderbilt University Press While more than 80 percent of the world's commercial music is controlled by four multinational firms, most music is made and enjoyed in diverse situations divorced from such corporate behemoths. These fourteen original essays examine the fascinating world of "music scenes," those largely inconspicuous sites where clusters of musicians, producers, and fans explore their common musical tastes and distinctive lifestyle choices. Although most music scenes come and go with hardly a trace, they nevertheless give immense satisfaction to their participants, and a few - New York bop jazz, Merseybeat, Memphis rockabilly, London punk, Bronx hip-hop - achieve fame and spur musical innovations. To date, serious study of the scenes phenomenon has focused mainly on specific music scenes while paying less attention to recurrent dynamics of scene life, such as how individuals construct and negotiate scenes to the various activities. This volume remedies that neglect. The editors distinguish between three types of scenes - local, translocal, and virtual - which provide the organizing framework for the essays. Aspects of local scenes, which are confined to specific areas, are explored through essays on Chicago blues, rave, karaoke, teen pop, and salsa. The section on translocal scenes, which involve the coming together of scattered local scenes around a particular type of music and lifestyle, includes articles on Riot Grrrls, goths, art music, and anarcho-punk. Aspects of virtual scenes, in which fans communicate via the internet, are illustrated using alternative country, the Canterbury sound, postrock, and Kate Bush fans. Also included is an essay that shows how the social conditions in places where jazz was made influenced that music's development.

The Animator's Survival Kit

A Manual of Methods, Principles and Formulas for Classical, Computer, Games, Stop Motion and Internet Animators

Macmillan The Academy Award-winning artist behind *Who Framed Roger Rabbit?* draws on his master instruction classes to demonstrate essential techniques required of animators of any skill level or method, in an updated edition that provides expanded coverage of such topics as animal gaits and live action. Simultaneous.

Glute Lab

The Art and Science of Strength and Physique Training

Victory Belt Publishing WALL STREET JOURNAL BEST SELLER IMPROVE YOUR PHYSIQUE, BUILD LEAN MUSCLE, AND INCREASE STRENGTH For more than twenty years, Bret "the Glute Guy" Contreras has been on a quest to improve human performance, focusing his research on the gluteus maximus, the largest muscle in the human body. What started as an effort to improve his own weak, flat backside quickly evolved when he discovered the wide range of functional movements to which the glutes contribute. Properly trained glutes not only help you lift heavier, jump higher, sprint faster, and swing harder but also help prevent knee, hip, and lower back pain and injuries. Bret went on to earn a doctorate in sports science and is now known as one of the world's foremost experts on strength and physique training. After helping thousands of people reach their strength goals and achieve their ideal physique in his world-renowned training facilities, Bret brings you *Glute Lab*, which pulls his field-tested and scientifically proven methods and techniques together into an all-in-one glute training system that will help you develop leaner, rounder, stronger, higher-performing glutes. This all-encompassing guide explains why glute training is important for health and performance, how the glutes function, what critical role they play in the body, and how to design the optimal training program to accomplish your aesthetic and performance goals. This book offers thirty-six weeks of programming and several training templates for those who want to dive right in, breaking down each technique with step-by-step photos and descriptions. Bret also reveals the most common faults people make when performing these movements and offers hundreds of tips for getting the most out of every training session. You can implement his system in your local gym or even in the comfort of your own home. *Glute Lab* is more than just a book on glute training. These principles and methods can help you maximize muscle growth and strength, improve body composition, overcome training and physique plateaus, train around injuries and discomfort, determine ideal training frequency and exercise selection, design periodized programs, and so much more. In short, this book gives you the tools to make strength and physique gains and design balanced programs that cater to a wide range of goals and work for your entire body. Whether you're a regular person looking to improve your appearance, an athlete looking to boost your performance, a physique competitor or bodybuilder looking for an edge over the competition, a powerlifter looking to increase your strength, a CrossFitter inspired to gain knowledge, a personal trainer interested in offering your clients cutting-edge training techniques, or a physical therapist looking to improve your clients' health, *Glute Lab* will equip you with the information you need. In this book you will learn: The fundamentals of optimal glute training The anatomy and function of the glutes How to select exercises based on your physique and training goals How to perform the most effective exercises for sculpting rounder, stronger glutes Variations of the hip thrust, deadlift, and squat exercises Sample training templates and splits that cater to different training goals and preferences How to implement advanced methods into your training routine Diet strategies to reach weight loss and body composition goals Sample glute burnouts and templates Twelve-week beginner, intermediate, and advanced full-body training programs with a glute emphasis How to design your own customized training programs How to overcome plateaus in training, strength, and physique

Ship of Theseus

Mulholland Books One book. Two readers. A world of mystery, menace and desire A young woman picks up a book left behind by a stranger. Inside it are his margin notes, which reveal a reader entranced by the story and by its mysterious author. She responds with notes of her own, leaving the book for the stranger, and so begins an unlikely conversation that plunges them both into the unknown. **THE BOOK:** *Ship of Theseus*, the final novel by a prolific but enigmatic writer named V. M. Straka, in which a man with no past is shanghaied onto a strange ship with a monstrous crew and launched on a disorienting and perilous journey. **THE WRITER:** Straka, the incendiary and secretive subject of one of the world's greatest mysteries, a revolutionary about whom the world knows nothing apart from the words he wrote and the rumours that swirl around him. **THE READERS:** Jennifer and Eric, a college senior and a disgraced grad student, both facing crucial decisions about who they are, who they might become, and how much they're willing to trust another person with their passions, hurts and fears. *S.*, conceived by filmmaker J.J. Abrams and written by award-winning novelist Doug Dorst, is the chronicle of two readers finding each other in the margins of a book and enmeshing themselves in a deadly struggle between forces they don't understand. It is also Abrams and Dorst's love letter to the written word.

Parallel Port Complete

Programming, Interfacing & Using the PC's Parallel Printer Port

lakeview research llc Provides advice for Visual Basic programmers attempting to interface hardware through standard ports.

Footsteps in the Dark

The Hidden Histories of Popular Music

*U of Minnesota Press Most pop songs are short-lived. They appear suddenly and, if they catch on, seem to be everywhere at once before disappearing again into obscurity. Yet some songs resonate more deeply—often in ways that reflect broader historical and cultural changes. In *Footsteps in the Dark*, George Lipsitz illuminates these secret meanings, offering imaginative interpretations of a wide range of popular music genres from jazz to salsa to rock. Sweeping changes that only remotely register in official narratives, Lipsitz argues, can appear in vivid relief within popular music, especially when these changes occur outside mainstream white culture. Using a wealth of revealing examples, he discusses such topics as the emergence of an African American techno music subculture in Detroit as a contradictory case of digital capitalism and the prominence of banda, merengue, and salsa music in the 1990s as an expression of changing Mexican, Dominican, and Puerto Rican nationalisms. Approaching race and popular music from another direction, he analyzes the Ken Burns PBS series *Jazz* as a largely uncritical celebration of American nationalism that obscures the civil rights era's challenge to racial inequality, and he takes on the infamous campaigns to censor hip-hop and the radical black voice in the early 1990s. Teeming with astute observations and brilliant insights about race and racism, deindustrialization, and urban renewal and their connections to music, *Footsteps in the Dark* puts forth an alternate history of post-cold war America and shows why in an era given to easy answers and clichéd versions of history, pop songs matter more than ever. George Lipsitz is professor of black studies and sociology at the University of California, Santa Barbara. Among his many books are *Life in the Struggle*, *Dangerous Crossroads*, and *American Studies in a Moment of Danger* (Minnesota, 2001).*

Parallel Processing and Parallel Algorithms

Theory and Computation

Springer Science & Business Media Motivation It is now possible to build powerful single-processor and multiprocessor systems and use them efficiently for data processing, which has seen an explosive expansion in many areas of computer science and engineering. One approach to meeting the performance requirements of the applications has been to utilize the most powerful single-processor system that is available. When such a system does not provide the performance requirements, pipelined and parallel processing structures can be employed. The concept of parallel processing is a departure from sequential processing. In sequential computation one processor is involved and performs one operation at a time. On the other hand, in parallel computation several processors cooperate to solve a problem, which reduces computing time because several operations can be carried out simultaneously. Using several processors that work together on a given computation illustrates a new paradigm in computer problem solving which is completely different from sequential processing. From the practical point of view, this provides sufficient justification to investigate the concept of parallel processing and related issues, such as parallel algorithms. Parallel processing involves utilizing several factors, such as parallel architectures, parallel algorithms, parallel programming languages and performance analysis, which are strongly interrelated. In general, four steps are involved in performing a computational problem in parallel. The first step is to understand the nature of computations in the specific application domain.

Strong Curves

A Woman's Guide to Building a Better Butt and Body

Victory Belt Publishing This is not your run-of-the-mill fitness book. Developed by world-renowned gluteal expert Bret Contreras, Strong Curves offers an extensive fitness and nutrition guide for women seeking to improve their physique, function, strength, and mobility. Contreras spent the last eighteen years researching and field-testing the best methods for building better butts and shapelier bodies. In Strong Curves, he offers the programs that have proven effective time and time again with his clients, allowing you to develop lean muscle, rounded glutes, and greater confidence. Each page is packed with information decoding the female anatomy, providing a better understanding as to why most fitness programs fail to help women reach their goals. With a comprehensive nutritional guide and over 200 strength exercises, this book gets women off the treadmill and furnishes their drive to achieve strength, power, and sexy curves from head to toe. Although the glutes are the largest and most powerful muscle group in the human body, they often go dormant due to lifestyle choices, leading to a flat, saggy bum. Strong Curves is the cure.

Nursing Interventions Classification (NIC) - E-Book

Elsevier Health Sciences Covering the full range of nursing interventions, Nursing Interventions Classification (NIC), 6th Edition provides a research-based clinical tool to help in selecting appropriate interventions. It standardizes and defines the knowledge base for nursing practice while effectively communicating the nature of nursing. More than 550 nursing interventions are provided — including 23 NEW labels. As the only comprehensive taxonomy of nursing-sensitive interventions available, this book is ideal for practicing nurses, nursing students, nursing administrators, and faculty seeking to enhance nursing curricula and improve nursing care. More than 550 research-based nursing intervention labels with nearly 13,000 specific activities Definition, list of activities, publication facts line, and background readings provided for each intervention. NIC Interventions Linked to 2012-2014 NANDA-I Diagnoses promotes clinical decision-making. New! Two-color design provides easy readability. 554 research-based nursing intervention labels with nearly 13,000 specific activities. NEW! 23 additional interventions include: Central Venous Access Device Management, Commendation, Healing Touch, Dementia Management: Wandering, Life Skills Enhancement, Diet Staging: Weight Loss Surgery, Stem Cell Infusion and many more. NEW! 133 revised interventions are provided for 49 specialties, including five new specialty core interventions. NEW! Updated list of estimated time and educational level has been expanded to cover every intervention included in the text.

Diccionario Inglés de la Universidad de Chicago

Chicago : University of Chicago Press Incorporating new words and meanings from both languages, the fifth edition of this well-received Spanish dictionary offers speakers of both Spanish and English a valuable bilingual resource for navigating these languages. (Reference)

How to Deliver a TED Talk: Secrets of the World's Most Inspiring Presentations, Revised and Expanded New Edition, with a Foreword by Richard St. John and an Afterword by Simon Sinek

McGraw Hill Professional How to give a world-class presentation—based on the wildly popular TED Talks The only TED Talks-based guide available showing business professionals how to give the presentation of their lives A nonprofit dedicated to Ideas Worth Sharing, TED Talks began as a challenge to leaders in technology, entertainment, and design to give the “talk of their lives.” The organization has since gone global and contains more than 14,000 videos on nearly every topic imaginable. How to Deliver a TED Talk is a step-by-step guide showing business professionals how to deliver a TED Talk by carefully selecting their topic, crafting their narrative, mastering their delivery, and refining their design. The more than 14,000 talks on the TED website have been viewed more than one billion times Originally self-published in 2012, this book immediately hit #1 on Amazon and has consistently ranked no less than #5; this is an expanded edition of the original Donovan is the founder and lead organizer of TEDxMillRiver, a sold-out TEDx event in Stamford, CT

Parallel Programming for Multicore and Cluster Systems

Springer Science & Business Media Innovations in hardware architecture, like hyper-threading or multicore processors, mean that parallel computing resources are available for inexpensive desktop computers. In only a few years, many standard software products will be based on concepts of parallel programming implemented on such hardware, and the range of applications will be much broader than that of scientific computing, up to now the main application area for parallel computing. Rauber and Runger take up these recent

developments in processor architecture by giving detailed descriptions of parallel programming techniques that are necessary for developing efficient programs for multicore processors as well as for parallel cluster systems and supercomputers. Their book is structured in three main parts, covering all areas of parallel computing: the architecture of parallel systems, parallel programming models and environments, and the implementation of efficient application algorithms. The emphasis lies on parallel programming techniques needed for different architectures. For this second edition, all chapters have been carefully revised. The chapter on architecture of parallel systems has been updated considerably, with a greater emphasis on the architecture of multicore systems and adding new material on the latest developments in computer architecture. Lastly, a completely new chapter on general-purpose GPUs and the corresponding programming techniques has been added. The main goal of the book is to present parallel programming techniques that can be used in many situations for a broad range of application areas and which enable the reader to develop correct and efficient parallel programs. Many examples and exercises are provided to show how to apply the techniques. The book can be used as both a textbook for students and a reference book for professionals. The material presented has been used for courses in parallel programming at different universities for many years.

Parallel Computer Architecture

A Hardware/software Approach

Gulf Professional Publishing This book outlines a set of issues that are critical to all of parallel architecture--communication latency, communication bandwidth, and coordination of cooperative work (across modern designs). It describes the set of techniques available in hardware and in software to address each issues and explore how the various techniques interact.

Batman: Year One

Turtleback For use in schools and libraries only. Chronicles the events that led to Bruce Wayne's becoming Batman and his first year fighting crime.

Cell Biology

User-Centric and Information-Centric Networking and Services

Access Networks, Storage and Cloud Perspective

CRC Press User-Centric Networks (UCN) and Information-Centric Networks (ICN) are new communication paradigms to increase the efficiency of content delivery and also content availability. In this new concept, the network infrastructure actively contributes to content caching and distribution. This book presents the basic concepts of UCN and ICN, describes the main architecture proposals for these networks, and discusses the main challenges to their development. The book also looks at the current challenges for this concept, including naming, routing and caching on the network-core elements, several aspects of content security, user privacy, and practical issues in implementing UCN and ICN.

Structured Parallel Programming

Patterns for Efficient Computation

Elsevier Programming is now parallel programming. Much as structured programming revolutionized traditional serial programming decades ago, a new kind of structured programming, based on patterns, is relevant to parallel programming today. Parallel computing experts and industry insiders Michael McCool, Arch Robison, and James Reinders describe how to design and implement maintainable and efficient parallel algorithms using a pattern-based approach. They present both theory and practice, and give detailed concrete examples using multiple programming models. Examples are primarily given using two of the most popular and cutting edge programming models for parallel programming: Threading Building Blocks, and Cilk Plus. These architecture-independent models enable easy integration into existing applications, preserve investments in existing code, and speed the development of parallel applications. Examples from realistic contexts illustrate patterns and themes in parallel algorithm design that are widely applicable regardless of implementation technology. The patterns-based approach offers structure and insight that developers can apply to a variety of parallel programming models Develops a composable, structured, scalable, and machine-independent approach to parallel computing Includes detailed examples in both Cilk Plus and the latest Threading Building Blocks, which support a wide variety of computers

Windows Server 2012 Hyper-V Cookbook

Packt Publishing Ltd "Windows Server 2012 Hyper-V Cookbook" is a practical cookbook packed with recipes showing and explaining all the features and components of Hyper-V. You'll learn from best practices, tips and tricks and examples of how to automate daily and

common tasks. If you are an administrator who wants to master Microsoft Server Virtualization with Windows Server 2012 Hyper-V, then this book is for you. You should be comfortable with virtualization concepts and practices, and knowledge of previous versions of Windows Server would be an advantage.

We the People, Volume 1

Foundations

Harvard University Press Bruce Ackerman offers a sweeping reinterpretation of our nation's constitutional experience and its promise for the future. Integrating themes from American history, political science, and philosophy, *We the People* confronts the past, present, and future of popular sovereignty in America. Only this distinguished scholar could present such an insightful view of the role of the Supreme Court. Rejecting arguments of judicial activists, proceduralists, and neoconservatives, Ackerman proposes a new model of judicial interpretation that would synthesize the constitutional contributions of many generations into a coherent whole. The author ranges from examining the origins of the dualist tradition in the *Federalist Papers* to reflecting upon recent, historic constitutional decisions. The latest revolutions in civil rights, and the right to privacy, are integrated into the fabric of constitutionalism. Today's Constitution can best be seen as the product of three great exercises in popular sovereignty, led by the Founding Federalists in the 1780s, the Reconstruction Republicans in the 1860s, and the New Deal Democrats in the 1930s. Ackerman examines the roles played during each of these periods by the Congress, the Presidency, and the Supreme Court. He shows that Americans have built a distinctive type of constitutional democracy, unlike any prevailing in Europe. It is a dualist democracy, characterized by its continuing effort to distinguish between two kinds of politics: normal politics, in which organized interest groups try to influence democratically elected representatives; and constitutional politics, in which the mass of citizens mobilize to debate matters of fundamental principle. Although American history is dominated by normal politics, our tradition places a higher value on mobilized efforts to gain the consent of the people to new governing principles. In a dualist democracy, the rare triumphs of constitutional politics determine the course of normal politics. More than a decade in the making, and the first of three volumes, this compelling book speaks to all who seek to renew and redefine our civic commitments in the decades ahead.

Modern Processor Design

Fundamentals of Superscalar Processors

Waveland Press Conceptual and precise, *Modern Processor Design* brings together numerous microarchitectural techniques in a clear, understandable framework that is easily accessible to both graduate and undergraduate students. Complex practices are distilled into foundational principles to reveal the authors insights and hands-on experience in the effective design of contemporary high-performance micro-processors for mobile, desktop, and server markets. Key theoretical and foundational principles are presented in a systematic way to ensure comprehension of important implementation issues. The text presents fundamental concepts and foundational techniques such as processor design, pipelined processors, memory and I/O systems, and especially superscalar organization and implementations. Two case studies and an extensive survey of actual commercial superscalar processors reveal real-world developments in processor design and performance. A thorough overview of advanced instruction flow techniques, including developments in advanced branch predictors, is incorporated. Each chapter concludes with homework problems that will institute the groundwork for emerging techniques in the field and an introduction to multiprocessor systems.

Netter's Clinical Anatomy E-Book

Elsevier Health Sciences Focus on the clinically relevant aspects of anatomy and bridge normal anatomy to common clinical conditions with *Netter's Clinical Anatomy, 4th Edition*. This easy-to-read, visually stunning text features nearly 600 superb Netter-style illustrations that provide essential descriptions of anatomy, embryology, and pathology to help you understand their clinical relevance. Authored by John Hansen, PhD, an Honored Member of the American Association of Clinical Anatomists, this book is an ideal anatomy reference for students who want to make the most of their study time or need a concise review of clinical anatomy.

Veni, Vidi, Video

The Hollywood Empire and the VCR

University of Texas Press A funny thing happened on the way to the movies. Instead of heading downtown to a first-run movie palace, or even to a suburban multiplex with the latest high-tech projection capabilities, many people's first stop is now the neighborhood video store. Indeed, video rentals and sales today generate more income than either theatrical releases or television reruns of movies. This pathfinding book chronicles the rise of home video as a mass medium and the sweeping changes it has caused throughout the film industry since the mid-1970s. Frederick Wasser discusses Hollywood's initial hostility to home video, which studio heads feared would lead to piracy and declining revenues, and shows how, paradoxically, video revitalized the film industry with huge infusions of cash that financed blockbuster movies and massive marketing campaigns to promote them. He also tracks the fallout from the video revolution in everything from changes in film production values to accommodate the small screen to the rise of media conglomerates and the loss of the diversity once provided by smaller studios and independent distributors.

PC Interfacing and Data Acquisition

Techniques for Measurement, Instrumentation and Control

Elsevier A practical guide to programming for data acquisition and measurement - must-have info in just the right amount of depth for engineers who are not programming specialists. This book offers a complete guide to the programming and interfacing techniques involved in data collection and the subsequent measurement and control systems using an IBM compatible PC. It is an essential guide for electronic engineers and technicians involved in measurement and instrumentation, DA&C programmers and students aiming to gain a working knowledge of the industrial applications of computer interfacing. A basic working knowledge of programming in a high-level language is assumed, but analytical mathematics is kept to a minimum. Sample listings are given in C and can be downloaded from the Newnes website. Practical guidance on PC-based acquisition Written for electronic engineers and software engineers in industry, not academics or computer scientists A textbook with strong foundations in industry

A Tale of Seven Scientists and a New Philosophy of Science

Oxford University Press In his latest book, Eric Scerri presents a completely original account of the nature of scientific progress. It consists of a holistic and unified approach in which science is seen as a living and evolving single organism. Instead of scientific revolutions featuring exceptionally gifted individuals, Scerri argues that the "little people" contribute as much as the "heroes" of science. To do this he examines seven case studies of virtually unknown chemists and physicists in the early 20th century quest to discover the structure of the atom. They include the amateur scientist Anton van den Broek who pioneered the notion of atomic number as well as Edmund Stoner a then physics graduate student who provided the seed for Pauli's Exclusion Principle. Another case is the physicist John Nicholson who is virtually unknown and yet was the first to propose the notion of quantization of angular momentum that was soon put to good use by Niels Bohr. Instead of focusing on the logic and rationality of science, Scerri elevates the role of trial and error and multiple discovery and moves beyond the notion of scientific developments being right or wrong. While criticizing Thomas Kuhn's notion of scientific revolutions he agrees with Kuhn that science is not drawn towards an external truth but is rather driven from within. The book will enliven the long-standing debate on the nature of science, which has increasingly shied away from the big question of "what is science?"

Encyclopedia of Parallel Computing

Springer Science & Business Media Containing over 300 entries in an A-Z format, the Encyclopedia of Parallel Computing provides easy, intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing. Topics for this comprehensive reference were selected, written, and peer-reviewed by an international pool of distinguished researchers in the field. The Encyclopedia is broad in scope, covering machine organization, programming languages, algorithms, and applications. Within each area, concepts, designs, and specific implementations are presented. The highly-structured essays in this work comprise synonyms, a definition and discussion of the topic, bibliographies, and links to related literature. Extensive cross-references to other entries within the Encyclopedia support efficient, user-friendly searches for immediate access to useful information. Key concepts presented in the Encyclopedia of Parallel Computing include; laws and metrics; specific numerical and non-numerical algorithms; asynchronous algorithms; libraries of subroutines; benchmark suites; applications; sequential consistency and cache coherency; machine classes such as clusters, shared-memory multiprocessors, special-purpose machines and dataflow machines; specific machines such as Cray supercomputers, IBM's cell processor and Intel's multicore machines; race detection and auto parallelization; parallel programming languages, synchronization primitives, collective operations, message passing libraries, checkpointing, and operating systems. Topics covered: Speedup, Efficiency, Isoefficiency, Redundancy, Amdahls law, Computer Architecture Concepts, Parallel Machine Designs, Benchmarks, Parallel Programming concepts & design, Algorithms, Parallel applications. This authoritative reference will be published in two formats: print and online. The online edition features hyperlinks to cross-references and to additional significant research. Related Subjects: supercomputing, high-performance computing, distributed computing

Parallel Computers 2

Architecture, Programming and Algorithms

CRC Press Since the publication of the first edition, parallel computing technology has gained considerable momentum. A large proportion of this has come from the improvement in VLSI techniques, offering one to two orders of magnitude more devices than previously possible. A second contributing factor in the fast development of the subject is commercialization. The supercomputer is no longer restricted to a few well-established research institutions and large companies. A new computer breed combining the architectural advantages of the supercomputer with the advance of VLSI technology is now available at very attractive prices. A pioneering device in this development is the transputer, a VLSI processor specifically designed to operate in large concurrent systems.

Parallel Computers 2: Architecture, Programming and Algorithms reflects the shift in emphasis of parallel computing and tracks the development of supercomputers in the years since the first edition was published. It looks at large-scale parallelism as found in transputer ensembles. This extensively rewritten second edition includes major new sections on the transputer and the OCCAM language. The book contains specific information on the various types of machines available, details of computer architecture and technologies, and descriptions of programming languages and algorithms. Aimed at an advanced undergraduate and postgraduate level, this handbook is also useful for research workers, machine designers, and programmers concerned with parallel computers. In addition, it will serve as a guide for potential parallel computer users, especially in disciplines where large amounts of computer time are regularly used.

Understanding Models in Earth & Space Science

NSTA Press

Copyright and Neighbouring Rights

UNESCO Designed for university courses on copyright, this manual is a major contribution to the study of this legal discipline. Topics covered include the subject matter and content of copyright; owners of copyright; duration of protection; transfer; neighbouring rights; collective administration of copyright; bodies set up to defend copyright; international law.

Learning ServiceNow

Packt Publishing Ltd *IT Service management at your fingertips About This Book* Leverage ServiceNow's capabilities to achieve improved service management and excellent results in your IT operations by following step-by-step, practical instructions *Build core administration, management, and maintenance skills with IT service management and IT operations management* Improve your workflow efficiency by designing and creating responsive and automated workflows *Who This Book Is For* This book is for IT professionals and administrators who are planning to or are already trying to implement ServiceNow in their organization for Enterprise IT service management tasks. Some familiarity with web technologies (JavaScript) would be helpful. System administration experience is necessary. *What You Will Learn* Acquire and configure your own free personal developer instance of ServiceNow *Read (and write!) clear, effective requirements for ServiceNow development* Avoid common pitfalls and missteps that could seriously impact future progress and upgradeability *Know how to troubleshoot when things go wrong using debugging tools* Discover developer "tips and tricks" *Pick up great tips from top ServiceNow development and administration professionals, and find out what they wish they knew when they were starting out* *In Detail* This book shows you how to put important ServiceNow features to work in the real world. We will introduce key concepts and examples on managing and automating IT services, and help you build a solid foundation towards this new approach. We'll demonstrate how to effectively implement various system configurations within ServiceNow. We'll show you how to configure and administer your instance, and then move on to building strong user interfaces and creating powerful workflows. We also cover other key elements of ServiceNow, such as alerts and notifications, security, reporting, and custom development. You will learn how to improve your business' workflow, processes, and operational efficiency. By the end of this book, you will be able to successfully configure and manage ServiceNow within your organization. *Style and approach* This book is a step-by-step practical tutorial to help you quickly deploy and configure ServiceNow in your organization.

The Oxford Handbook of Organizational Psychology, Volume 1

Oxford University Press *Organizational psychology is the science of psychology applied to work and organizations. This is the first of two volumes which compiles knowledge in organizational psychology, encapsulates key topics of research and application, and summarizes important research findings.*

Dirac Operators in Riemannian Geometry

American Mathematical Soc. *Examines the Dirac operator on Riemannian manifolds, especially its connection with the underlying geometry and topology of the manifold. The presentation includes a review of Clifford algebras, spin groups and the spin representation, as well as a review of spin structures and spin [superscript C] structures. With this foundation established, the Dirac operator is defined and studied, with special attention to the cases of Hermitian manifolds and symmetric spaces. Then, certain analytic properties are established, including self-adjointness and the Fredholm property. An important link between the geometry and the analysis is provided by estimates for the eigenvalues of the Dirac operator in terms of the scalar curvature and the sectional curvature. Considerations of Killing spinors and solutions of the twistor equation on M lead to results about whether M is an Einstein manifold or conformally equivalent to one. Finally, in an appendix, Friedrich gives a concise introduction to the Seiberg-Witten invariants, which are a powerful tool for the study of four-manifolds. There is also an appendix reviewing principal bundles and connections.*

Working with Specialized Language

A Practical Guide to Using Corpora

Routledge Working with Specialized Language: a practical guide to using corpora introduces the principles of using corpora when studying specialized language. The resources and techniques used to investigate general language cannot be easily adopted for specialized investigations. This book is designed for users of language for special purposes (LSP). Providing guidelines and practical advice, it enables LSP users to design, build and exploit corpus resources that meet their specialized language needs. Highly practical and accessible, the book includes exercises, a glossary and an appendix describing relevant resources and corpus-analysis software. Working with Specialized Language is ideal for translators, technical writers and subject specialists who are interested in exploring the potential of a corpus-based approach to teaching and learning LSP.

Highly Parallel Computing

Benjamin-Cummings Publishing Company This second edition includes new exercises for each chapter, a quantitative treatment of speedup, seismic migration, using a workstation network as a parallel computer, recent changes in technology, more languages, fat trees, wormhole switching, new SIMD hardware, an expanded section on CM-2, new MIMD hardware, using workstation clusters as a MIMD system, and directory based caches. Annotation copyright by Book News, Inc., Portland, OR

Indexing and Abstracting in Theory and Practice

Design of Machinery

An Introduction to the Synthesis and Analysis of Mechanisms and Machines

This text provides information on the design of machinery. It presents vector mathematical and matrix solution methods for analysis of both kinetic and dynamic analysis topics, and emphasizes the use of computer-aided engineering as an approach to the design and analysis of engineering problems. The author aims to convey the art of the design process in order to prepare students to successfully tackle genuine engineering problems encountered in practice. The book also emphasizes the synthesis and design aspects of the subject with analytical synthesis of linkages covered and cam design is given a thorough and practical treatment.

Revulsion: Thomas Bernhard in San Salvador

New Directions Publishing The 1997 novel that put Horacio Castellanos Moya on the map, now published for the first time in English An expatriate professor, Vega, returns from exile in Canada to El Salvador for his mother's funeral. A sensitive idealist and an aggrieved motor mouth, he sits at a bar with the author, Castellanos Moya, from five to seven in the evening, telling his tale and ranting against everything his country has to offer. Written in a single paragraph and alive with a fury as astringent as the wrath of Thomas Bernhard, Revulsion was first published in 1997 and earned its author death threats. Roberto Bolano called Revulsion Castellanos Moya's darkest book and perhaps his best: "A parody of certain works by Bernhard and the kind of book that makes you laugh out loud."