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Research and Development Progress Elsevier

Multiphase Flow in Polymer Processing focuses on dispersed and stratified multiphase flow in polymer processing. This book explores the rheological behavior of multiphase (or multicomponent) polymeric systems as they are involved in various fabrication operations. It also outlines the importance of the morphological states of multiphase polymeric systems to explain the systems, rheological behavior in the fluid state, and mechanical behavior in the solid state. This monograph consists of eight chapters divided into two parts. After discussing dispersed and stratified multiphase flow in polymer processing, it introduces the reader to the fundamentals of rheology. The following chapters focus on the rheological behavior of particulate-filled polymeric systems and heterogeneous polymeric systems; the phenomenon of droplet breakup in dispersed flow; and gas-charged polymeric systems. The role of the discrete phase (that is, solid particles, liquid droplets, gas bubbles) in determining the bulk rheological properties of the multiphase system is highlighted, along with some representative polymer processing operations (namely, fiber spinning and injection molding) of the multiphase (or multicomponent) polymeric systems. Coextrusion in cylindrical, rectangular, and annular dies is also considered. The final chapter is devoted to the phenomenon of interfacial instability in coextrusion. This text will be a useful resource for chemists, chemical engineers, and those in the polymer processing industry.

RESTful Web Services Wiley

This book provides a systematic and comprehensive treatment of the variety of methods available for applying data reconciliation techniques. Data filtering, data compression and the impact of measurement selection on data reconciliation are also exhaustively explained. Data errors can cause big problems in any process plant or refinery. Process measurements can be correupted by power supply flucutations, network transmission and signla conversion noise, analog input filtering, changes in ambient conditions, instrument malfunctioning, miscalibration, and the wear and corrosion of sensors, among other factors. Here's a book that helps you detect, analyze, solve, and avoid the data acquisition problems that can rob plants of peak performance. This indispensable volume provides crucial insights into data reconciliation and gorss error detection techniques that are essential fro optimal process control and information systems. This book is an invaluable tool for engineers and managers faced with the selection and implementation of data reconciliation software, or for those developing such software. For industrial personnel and students, Data Reconciliation and Gross Error Detection is the ultimate reference.

Popular Photography Organisation for Economic Co-operation and Development ; [Washington, D.C. : sold by OECD Publications Center]

Debian GNU/Linux is one of the major Linux distributions available today. It is known as the most open" of the Linux distributions -- for its commitment to the free software principals, and its community-centricism. It is also known for its tradition of high-quality packages and package management tools, as well as its focus on security issues. Debian GNU/Linux(r) Bible focuses on common apps, GUIs, networking, and system administration. The Debian Project's Internet-based development model has helped the distribution achieve unparalleled Internet functionality. One of the most popular features in Debian GNU/Linux is "apt-get," which automates free network downloads of all software package updates, making the Debian CD the last CD you will ever need to keep your system up-to-date with Linux."

Particle Physics Reference Library IWA Publishing

After a historical consideration of the types and evolution of accelerators the physics of particle beams is provided in detail. Topics dealt with comprise linear and nonlinear beam dynamics, collective phenomena in beams, and interactions of beams with the surroundings. The design and principles of synchrotrons, circular and linear colliders, and of linear accelerators are discussed next. Also technological aspects of accelerators (magnets, RF cavities, cryogenics, power supply, vacuum, beam instrumentation, injection and extraction) are reviewed, as well as accelerator operation (parameter control, beam feedback system, orbit correction, luminosity optimization). After introducing the largest accelerators and colliders of their times the application of accelerators and storage rings in industry, medicine, basic science, and energy research is discussed, including also synchrotron radiation sources and spallation sources. Finally, cosmic accelerators and an outlook for the future are given.

Charged Particle Cross Sections UNESCO Publishing

Deconstruction is no game of mirrors, revealing the text as a play of surface against surface. Its more radical philosophical effort is to get behind the mirror and question the very nature of reflection. The Tain of the Mirror explores that gritty surface without which no reflection would be possible.

Data Reconciliation and Gross Error Detection Harvard University Press
Atlas of Early Zebrafish Brain Development: A Tool for Molecular Neurogenetics, Second Edition, remains the only neuroanatomical expression atlas of important genetic and immunohistochemical markers of this vertebrate model system. It represents a key reference and interpretation matrix for analyzing expression domains of genes involved in Zebrafish brain development and neurogenesis, and serves as a continuing milestone in this research area. This updated volume provides in-situ hybridized and immunostained preparations of complete series of brain sections, revealing markers of the fundamental stages in the life history of neuronal cells in very high quality preparations and photographic plates. Specific additions to this edition include documentation on the distribution of neurons expressing GABA, dopamine and serotonin, material on the basal ganglia, hypothalamus, and the caudal, segmented part of the diencephalon, new theories on the early organization of the telencephalon and thalamus, and integration of a comparative perspective on the mid- and hindbrain. Documentation on the distribution of neurons expressing GABA, dopamine and serotonin Material on the basal ganglia, hypothalamus, and the caudal, segmented part of the diencephalon New theories about the early organization of the telencephalon and thalamus Integration of a comparative perspective on the mid- and hindbrain
RITA 2018 McGraw Hill Professional
This 1978 report discusses trends and prospects for public expenditures and revenues.
RESTful Web Services Cookbook CRC Press
Edited by internationally recognized authorities in the field, this expanded and updated new edition of the bestselling Handbook, containing more than 100 new articles, is aimed at the design and operation of modern particle accelerators. It is intended as a vade mecum for professional engineers and physicists engaged in these subjects. With a collection of more than 2000 equations, 300 illustrations and 500 graphs and tables, here one will find, in addition to the common formulae of previous compilations, hard-to-find, specialized formulae, recipes and material data pooled from the lifetime experience of many of the world''s most able practitioners of the art and science of accelerators.The eight chapters include both theoretical and practical matters as well as an extensive glossary of accelerator types. Chapters on beam dynamics and electromagnetic and nuclear interactions deal with linear and nonlinear single particle and collective effects including spin motion, beam-environment, beam-beam, beam-electron, beam-ion and intrabeam interactions. The impedance concept and related calculations are dealt with at length as are the instabilities associated with the various interactions mentioned. A chapter on operational considerations includes discussions on the assessment and correction of orbit and optics errors, real-time feedbacks, generation of short photon pulses, bunch compression, tuning of normal and superconducting linacs, energy recovery linacs, free electron lasers, cooling, space-charge compensation, brightness of light sources, collider luminosity optimization and collision schemes. Chapters on mechanical and electrical considerations present material data and important aspects of component design including heat transfer and refrigeration. Hardware systems for particle sources, feedback systems, confinement and acceleration (both normal conducting and superconducting) receive detailed treatment in a subsystems chapter, beam measurement techniques and apparatus being treated therein as well. The closing chapter gives data and methods for radiation protection computations as well as much data on radiation damage to various materials and devices.A detailed name and subject index is provided together with reliable references to the literature where the most detailed information available on all subjects treated can be found.
Spectrochemical Analysis Springer Science & Business Media
This book gathers the Proceedings of the 6th International Conference on Robot Intelligence Technology and Applications (RITA 2018). Reflecting the conference’s main theme, “Robotics and Machine Intelligence: Building Blocks for Industry 4.0,” it features relevant and current research investigations into various aspects of these building blocks. The areas covered include: Instrumentation and Control, Automation, Autonomous Systems, Biomechatronics and Rehabilitation Engineering, Intelligent Systems, Machine Learning, Robotics, Sensors and Actuators, and Machine Vision, as well as Signal and Image Processing. A valuable asset, the book offers researchers and practitioners a timely overview of the latest advances in robot intelligence technology and its applications.
Multiphase Flow in Polymer Processing Academic Press
While the REST design philosophy has captured the imagination of web and enterprise developers alike, using this approach to develop real web services is no picnic. This cookbook includes more than 100 recipes to help you take advantage of REST, HTTP, and the infrastructure of the Web. You'll learn ways to design RESTful web services for client and server applications that meet performance, scalability, reliability, and security goals, no matter what programming language and development framework you use. Each recipe includes one or two problem statements, with easy-to-follow, step-by-step instructions for solving them, as well as examples using HTTP requests and responses, and XML, JSON, and Atom snippets. You'll also get implementation guidelines, and a discussion of the pros, cons, and trade-offs that come with each solution. Learn how to design resources to meet various application scenarios Successfully design representations and URIs Implement the hypertext constraint using links and link headers Understand when and how to use Atom and AtomPub Know what and what not to do to support caching Learn how to implement concurrency control Deal with advanced use cases involving copying, merging, transactions, batch

processing, and partial updates Secure web services and support OAuth

Analysis and Design of Flight Vehicle Structures Amer Radio Relay League

Brachytherapy has become the modality of choice for several cancer localizations, minimizing the possibility of unacceptable risks for healthy tissues and providing a more cost-effective and convenient treatment for patients. Written by leading experts in the physics, development, and implementation of brachytherapy, The Physics of Modern Brachythe

Boiler Operation Engineering Lippincott Williams & Wilkins

Dr. Khan's classic textbook on radiation oncology physics is now in its thoroughly revised and updated Fourth Edition. It provides the entire radiation therapy team—radiation oncologists, medical physicists, dosimetrists, and radiation therapists—with a thorough understanding of the physics and practical clinical applications of advanced radiation therapy technologies, including 3D-CRT, stereotactic radiotherapy, HDR, IMRT, IGRT, and proton beam therapy. These technologies are discussed along with the physical concepts underlying treatment planning, treatment delivery, and dosimetry. This Fourth Edition includes brand-new chapters on image-guided radiation therapy (IGRT) and proton beam therapy. Other chapters have been revised to incorporate the most recent developments in the field. This edition also features more than 100 full-color illustrations throughout. A companion Website will offer the fully searchable text and an image bank.

Popular Photography Springer

Thin layer chromatography (TLC) is increasingly used in the fields of plant chemistry, biochemistry, and molecular biology. Advantages such as speed, versatility, and low cost make it one of the leading techniques used for locating and analyzing bioactive components in plants. Thin Layer Chromatography in Phytochemistry is the first source devoted to supplying state-of-the-art information on TLC as it applies to the separation, identification, quantification, and isolation of medicinal plant components. Renowned scientists working with laboratories around the world demonstrate the applicability of TLC to a remarkable diversity of fields including plant genetics, drug discovery, nutraceuticals, and toxicology. Elucidates the role of plant materials in the pharmaceutical industry... Part I provides a practical review of techniques, relevant materials, and the particular demands for using TLC in phytochemical applications. The text explains how to determine the biological activity of metabolites and assess the effectiveness of herbal medicines and nutritional supplements. Part II concentrates on TLC methods used to analyze specific plant-based metabolite classes such as carbohydrates, proteins, alkaloids, flavonoids, terpenes, etc. Organized by compound type, each chapter discusses key topics such as sample preparation, plate development, zone detection, densitometry, and biodetection. Demonstrates practical methods that can be applied to a wide range of disciplines... From identification to commercial scale production and quality control, Thin Layer Chromatography in Phytochemistry is an essential bench-top companion and reference on using TLC for the study of plant-based bioactive compounds.

Physics for Scientists & Engineers, Volume 2 (Chs 21-35) "O'Reilly Media, Inc."

Marking a complete break with previous scholarship in the field, this book rewrites the history of early Chan (Zen) Buddhism, focusing on the genealogy and doctrine of one of its dominant strains, the so-called Northern school that flourished at the turn of the eighth century. The traditional interpretation of the Northern school was heavily influenced by the polemics of one of its opponents, the monk Shenhiu, who characterized the Northern school's teaching as propounding the belief that enlightenment occurred gradually, was measurable, and could be expressed in conventional language. To all this, Shenhiu and his teaching of "sudden enlightenment" were opposed, and Shenhiu's school and its version of history would later prevail. On the basis of documents found at Dunhuang, this book shows how the traditional view is incorrect, that Shenhiu's imposition of a debate between gradual and sudden conceals the doctrinal continuity between the two schools and the diversity of Chan thought in the period. The author buttresses his conclusions by placing the evolution of early Chan in the intellectual, political, social, and economic context of the mid-Tang. The book is in three parts. The first part treats the biography and thought of the "founder" of the Northern school, Shenxiu, the nature of his followers, and his affinities for Buddhistic scholasticism. The second part studies the way in which the Northern school, after Shenxiu, adapted to new circumstances: changes in imperial policies, the rise of rival schools, and changes in the nature of its followers. The third part focuses on the internecine struggles around the genealogy of Chan as reflected in the Lengqie shizi ji (Record of the Masters and Disciples of the Lankavatara [School]) by the monk Jingjue. A close reading of this work reveals that it foreshadowed many of the themes and issues that would later come to the forefront in Zen, and contributes significantly to our reassessment of the teachings and practices of "pre-classical" Chan.

Handbook of Accelerator Physics and Engineering Elsevier

This third open access volume of the handbook series deals with accelerator physics, design, technology and operations, as well as with beam optics, dynamics and diagnostics. A joint CERN-Springer initiative, the "Particle Physics Reference Library" provides revised and updated contributions based on previously published material in the well-known Landolt-Boernstein series on particle physics, accelerators and detectors (volumes 21A,B1,B2,C), which took stock of the field approximately one decade ago. Central to this new initiative is publication under full open access.

Thin Layer Chromatography in Phytochemistry World Scientific

This book surveys the entire field of body composition as it relates to

performance. It includes a clear definition of terminology and a discussion of the various methods for measuring body composition. The authored papers represent a state-of-the-art review of this controversial field and address questions such as: What is a better measure of body compositionâ€"body fat or lean body mass? Does being overweight for one's height really affect performance? The book also addresses the issue of physical appearance as it relates to body fatness and performance. It includes an in-depth discussion of many of the topics of interest to those involved in sports medicine and exercise physiology.

The Will to Orthodoxy Pearson Higher Ed

For the calculus-based General Physics course primarily taken by engineers and science majors (including physics majors). This long-awaited and extensive revision maintains Giancoli's reputation for creating carefully crafted, highly accurate and precise physics texts. Physics for Scientists and Engineers combines outstanding pedagogy with a clear and direct narrative and applications that draw the student into the physics. The new edition also features an unrivaled suite of media and on-line resources that enhance the understanding of physics. This book is written for students. It aims to explain physics in a readable and interesting manner that is accessible and clear, and to teach students by anticipating their needs and difficulties without oversimplifying. Physics is a description of reality, and thus each topic begins with concrete observations and experiences that students can directly relate to. We then move on to the generalizations and more formal treatment of the topic. Not only does this make the material more interesting and easier to understand, but it is closer to the way physics is actually practiced. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

Teacher policy development guide National Academies Press

Part - 1. Fundamentals of Soil Mechanics : Introduction * Basic Definitions and Simple Tests * Practical Size Analysis * Plasticity Characteristics of Soils * Soil Classification * Clay Mineralogy and Soil Structure * Capillary Water * Permeability of Soil * Seepage Analysis * Effective Stress Principle * Stresses due to Applied Loads * Consolidation of Soils * Shear Strength * Compaction of Soils * Soil Stabilisation * Drainage, De-watering and Wells Part-2. Earth Retaining Structures and Foundation Engineering :. Site Investigations * Stability of Slopes * Earth Pressure Theories * Design of Retaining Walls and Bulkheads * Braced Cuts and Coffer Dams * Shafts, Tunnels and Underground Conducts * Bearing Capacity of Shallow Foundations * Design of Shallow Foundations * Pile Foundation * Drilled Piers and Caissons * Well Foundations * Machine Foundations * Pavement Design * Laboratory Experiments * Introduction to Rock Mechanics * Geothechnical Earthquake Engineering * Glossary of Common Terms * Miscellaneous objective-type questions * References * Publications of Bureau of Indian Standards * Index.

Report on the Destruction of Manila and Japanese Atrocities CRC Press

Coagulation and Flocculation in Water and Wastewater Treatment provides a comprehensive account of coagulation and flocculation techniques and technologies in a single volume covering theoretical principles to practical applications. Thoroughly revised and updated since the 1st Edition it has been progressively modified and increased in scope to cater for the requirements of practitioners involved with water and wastewater treatment. A thorough gamut of treatment scenarios is attempted, including turbidity, color and organics removal, including the technical aspects of enhanced coagulation. The effects of temperature and ionic content are described as well as the removal of specific substances such as arsenic and phosphorus. Chemical phosphorus removal is dealt with in detail, Rapid mixing for efficient coagulant utilization, and flocculation are dealt with in specific chapters. Water treatment plant waste sludge disposal is dealt with in considerable detail, in an Appendix devoted to this subject. Invaluble for water scientists, engineers and students of this field, Coagulation and Flocculation in Water and Wastewater Treatment is a convenient reference handbook in the form of numerous examples and appended information.

The Physics of Radiation Therapy Springer

A Sr/Grad-level text on analytical spectrometric methods. Emphasizes general principles and quantitative expressions for signals and signal-to-noise ratio. Instrumentation methodology and performance characteristics for all major optical, atomic, and molecular techniques are discussed.