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Bretherick's Handbook of Reactive Chemical Hazards - L. Bretherick 2016-10-27
Bretherick's Handbook of Reactive Chemical Hazards, Fourth Edition, has been prepared and revised to give access to a wide and up-to-date selection of documented information to research students, practicing chemists, safety officers, and others concerned with the safe handling and use of reactive chemicals. This will allow ready assessment of the likely potential for reaction hazards which may be associated with an existing or proposed chemical compound or reaction system. A secondary, longer-term purpose is to present the information in a way which will, as far as possible, bring out the causes of, and interrelationships between, apparently disconnected facts and incidents. This handbook includes all information which had become available to the author by April 1989 on the reactivity hazards of individual elements or compounds, either alone or in combination. It begins with an introductory chapter that provides an overview of the complex subject of reactive chemical hazards, drawing attention to the underlying principles and to some practical aspects of minimizing such hazards. This is followed by two sections: Section 1 provides detailed information on the hazardous properties of individual chemicals, either alone or in combination with other compounds; the entries in Section 2 are of two distinct types. The first type of entry gives general information on the hazardous behavior of some recognizably discrete classes or groups of the 4,600 or so individual compounds for which details are given in Section 1. The second type of entry concerns reactive hazard topics, techniques, or incidents which have a common theme or pattern of behavior involving compounds of several different groups, so that no common structural feature exists for the compounds involved.
Civil Structural Health Monitoring - Carlo Rainieri 2021-08-24
This volume gathers the latest advances and innovations in the field of structural health monitoring, as presented at the 8th Civil Structural Health Monitoring Workshop (CSHM-8), held on March 31–April 2, 2021. It discusses emerging challenges in civil SHM and more broadly in the fields of smart materials and intelligent systems for civil engineering applications. The contributions cover a diverse range of topics, including applications of SHM to civil structures and infrastructures, innovative sensing solutions for SHM, data-driven damage detection techniques, nonlinear systems and analysis techniques, influence of environmental and operational conditions, aging structures and infrastructures in hazardous environments, and SHM in earthquake prone regions. Selected by means of a rigorous peer-review process, they will spur novel research directions and foster future multidisciplinary collaborations.
Nanopharmaceuticals: Principles and Applications Vol. 1 - Vinod Kumar Yata 2020-07-14
This book discusses the biological, technical and study-design challenges of Nanopharmaceuticals. Chapters of this book are dedicated to supermagentic iron oxide nanoparticles for the diagnosis of brain, breast, gastric, ovarian, liver, colorectal, lung and pancreatic cancers. It also includes a brief introduction to magnetic resonance imaging and ends with the future prospective of iron oxide nanoparticles in cancer detection. The book also provides a critical discussion on ‘Computational sequence design for DNA nanostructures’ and gives a brief introduction about the skin delivery. A detailed discussion has

been included about the different types of nanocarriers such as micells, microemulsions, nanoemulsions, polymeric and lipid based nanoparticles. Focussing on the safety concerns of nanomedicine it also covers the safety issues, clinical benefits, ecotoxicity and regulatory frame work of nanopharmaceuticals.

Functionality of Proteins in Food - Joseph F. Zayas 2012-12-06

The book is devoted to expanding current views on the phenomena of protein functionality in food systems. Protein functionalities in foods have been the object ofextensive research over the last thirty to forty years and significant progress has been made in understanding the mechanism and factors influencing the functionality of proteins. The functionality of proteins is one of the fastest developing fields in the studies of protein utilization in foods. Currently, a broad spectrum of data related to protein functionality in food systems has been collected, however, much more needs to be known. In this volume, the most important functional properties offood proteins are presented: Protein solubility, water holding capacity and fat binding, emulsifying, foaming, and gelling properties as affected by protein source, environmental factors (pH, temperature, ionic strength) and protein concentration; Relationships between protein conformation, physicochemical properties, and functional properties; Protein functional properties as influenced by various food processing conditions, particularly heat treatment, dehydration, freezing and storage when frozen, extraction and other processes; Effects ofprotein modification on the enhancementofprotein functionality; Utilization ofvarious proteins in improving functional properties in food systems. Those aspects of protein functionality are presented which the author believes to be interesting and most important for protein utilization in food systems. The book is recommended to students and food scientists engaged in food protein research and food industry research, and development scientists. Table ofContents Introduction 1 References 5 Chapter 1 Solubility ofProteins. . . . . 6 1. 1 Introduction. . . . . 6 1. 1. 1 Factors Affecting Solubility ofProteins. . . . . .

Inkjet Technology for Digital Fabrication - Ian M. Hutchings 2012-11-09

Whilst inkjet technology is well-established on home and small office desktops and is now having increasing impact in commercial printing, it can also be used to deposit materials other than ink as individual droplets at a microscopic scale. This allows metals, ceramics, polymers and biological materials (including living cells) to be patterned on to substrates under precise digital control. This approach offers huge potential advantages for manufacturing, since inkjet methods can be used to generate structures and functions which cannot be attained in other ways. Beginning with an overview of the fundamentals, this bookcovers the key components, for example piezoelectric print-heads and fluids for inkjet printing, and the processes involved. It goes on to describe specific applications, e.g. MEMS, printed circuits, active and passive electronics, biopolymers and living cells, and additive manufacturing. Detailed case studies are included on flat-panel OLED displays, RFID (radio-frequency identification) manufacturing and tissue engineering, while a comprehensive examination of the current technologies and future directions of inkjet technology completes the coverage. With contributions from both academic researchers and leading names in the industry, Inkjet Technology for Digital Fabrication is a comprehensive resource for technical development engineers, researchers and students in inkjet technology and system development, and will also appeal to researchers in chemistry, physics, engineering, materials science and electronics.

Student Guide - 2000

Pheno-phospholipids and Lipo-phenolics - Mohamed Fawzy Ramadan 2021-02-15

Natural phenolics are powerful bioactive compounds, but their use as antioxidant agents in lipid-based foodstuffs and cosmetics is limited due to their hydrophilic traits. A promising technique to overcome low solubility of phenolics is to increase their hydrophobicity by grafting with lipophilic moiety to form lipid-enriched phenolics (lipo-phenolics). Another way to enhance the amphiphilic traits of phenolics is by

lipophilization with phospholipids in a suitable solvent to form phenolics-enriched phospholipids (pheno-phospholipids). Both functionalized phenolics (phenolipids) exhibit high bioavailability and antioxidative potential. Functional phenolics-enriched phospholipids (pheno-phospholipids) play an important role in enhancing the functional properties of both phenolic compounds and phospholipids in food for their use in nutrition and health. Phenolipids have also found applications on an industrial scale, likely due to low costs, the availability of starting material and safety. Recent advances in the field of lipophilization allow accessing molecules with high potency and targeted action covering a wide spectrum of bioactivities. Owing to their cost and availability, phenolipids find applications in niche sectors such as cosmetics and pharmaceutics as well as in the novel food. This book reports on the chemistry, preparation, and functionality of lipid-enriched phenolics (lipo-phenolics), broadening their applications in food, pharmaceuticals and cosmetics. The strategies of the lipophilization of phenolics, the effect of modification on the biological properties and potential applications of the resulting lipo-phenolics are reviewed. The text also discusses the preparation, physicochemical characteristics and functional properties of phenolipids and phytosomes, including the latest developments and their current industrial status.

Analytical Profiles of Drug Substances - 1972

Hot-Melt Extrusion - Dennis Douroumis 2012-04-24

Hot-melt extrusion (HME) - melting a substance and forcing it through an orifice under controlled conditions to form a new material - is an emerging processing technology in the pharmaceutical industry for the preparation of various dosage forms and drug delivery systems, for example granules and sustained release tablets. Hot-Melt Extrusion: Pharmaceutical Applications covers the main instrumentation, operation principles and theoretical background of HME. It then focuses on HME drug delivery systems, dosage forms and clinical studies (including pharmacokinetics and bioavailability) of HME products. Finally, the book includes some recent and novel HME applications, scale -up considerations and regulatory issues. Topics covered include: principles and die design of single screw extrusion twin screw extrusion techniques and practices in the laboratory and on production scale HME developments for the pharmaceutical industry solubility parameters for prediction of drug/polymer miscibility in HME formulations the influence of plasticizers in HME applications of polymethacrylate polymers in HME HME of ethylcellulose, hypromellose, and polyethylene oxide bioadhesion properties of polymeric films produced by HME taste masking using HME clinical studies, bioavailability and pharmacokinetics of HME products injection moulding and HME processing for pharmaceutical materials laminar dispersive & distributive mixing with dissolution and applications to HME technological considerations related to scale-up of HME processes devices and implant systems by HME an FDA perspective on HME product and process understanding improved process understanding and control of an HME process with near-infrared spectroscopy Hot-Melt Extrusion: Pharmaceutical Applications is an essential multidisciplinary guide to the emerging pharmaceutical uses of this processing technology for researchers in academia and industry working in drug formulation and delivery, pharmaceutical engineering and processing, and polymers and materials science. This is the first book from our brand new series Advances in Pharmaceutical Technology. Find out more about the series here.

Crystallization in Foods - Richard W. Hartel 2001-03-31

In the food industry, controlling crystallization is a key factor in quality as it relates to texture, with some foods requiring the promotion of crystallization and others its prevention. In the first publication to focus specifically on this process as it applies to food, Crystallization in Foods covers fundamental principles in ice, sugar, and lipid crystallization, and their applications. Drawing on examples throughout of the practical use and impact of crystallization on food structure, texture, and quality; and enhanced with numerous equations and illustrations, Crystallization in Foods is a valuable resource for food engineers and other scientists working with crystallization in foods, particularly in the dairy, confectionery, frozen

foods, and baked goods industries. In addition, this book may be of interest to scientists and other professionals in the personal care and cosmetics industry, which shares some of the same quality and texture concerns as the food industry.

Computational Pharmaceutics - Defang Ouyang 2015-07-20

Molecular modeling techniques have been widely used in drug discovery fields for rational drug design and compound screening. Now these techniques are used to model or mimic the behavior of molecules, and help us study formulation at the molecular level. Computational pharmaceutics enables us to understand the mechanism of drug delivery, and to develop new drug delivery systems. The book discusses the modeling of different drug delivery systems, including cyclodextrins, solid dispersions, polymorphism prediction, dendrimer-based delivery systems, surfactant-based micelle, polymeric drug delivery systems, liposome, protein/peptide formulations, non-viral gene delivery systems, drug-protein binding, silica nanoparticles, carbon nanotube-based drug delivery systems, diamond nanoparticles and layered double hydroxides (LDHs) drug delivery systems. Although there are a number of existing books about rational drug design with molecular modeling techniques, these techniques still look mysterious and daunting for pharmaceutical scientists. This book fills the gap between pharmaceutics and molecular modeling, and presents a systematic and overall introduction to computational pharmaceutics. It covers all introductory, advanced and specialist levels. It provides a totally different perspective to pharmaceutical scientists, and will greatly facilitate the development of pharmaceutics. It also helps computational chemists to look for the important questions in the drug delivery field. This book is included in the Advances in Pharmaceutical Technology book series.

RYA Navigation Exercises - Chris Slade 2008

These RYA navigation exercises have been designed and written to help improve seamanship and navigatio skills, and to complement the RYA Day Skipper and Coastal Skipper/Yachtmaster Offshore shorebased courses.

Pasifika Plates - Secrétariat général de la Communauté du Pacifique 2016

Encyclopedia of Allergies - Myron A. Lipkowitz 2001-01-01

Provides information on symptoms, treatments, therapies, inherited allergies, environmental allergies, asthma, food allergies, RAST testing, and research scientists.

Formulating Poorly Water Soluble Drugs - Robert O. Williams III 2011-12-04

This volume is intended to provide the reader with a breadth of understanding regarding the many challenges faced with the formulation of poorly water-soluble drugs as well as in-depth knowledge in the critical areas of development with these compounds. Further, this book is designed to provide practical guidance for overcoming formulation challenges toward the end goal of improving drug therapies with poorly water-soluble drugs. Enhancing solubility via formulation intervention is a unique opportunity in which formulation scientists can enable drug therapies by creating viable medicines from seemingly undeliverable molecules. With the ever increasing number of poorly water-soluble compounds entering development, the role of the formulation scientist is growing in importance. Also, knowledge of the advanced analytical, formulation, and process technologies as well as specific regulatory considerations related to the formulation of these compounds is increasing in value. Ideally, this book will serve as a useful tool in the education of current and future generations of scientists, and in this context contribute toward providing patients with new and better medicines.

Smithells Light Metals Handbook - G B Brook 1998-02-17

The Smithells Metals Reference Book is one of the best known and most trusted sources of reference for the professional metallurgist or materials scientist, and has been so since its inception in 1949. Drawing upon the data contained within this respected work, and completely updating and revising it where necessary to bring the information completely up to date, the editors have created a new book which is dedicated to the most commonly used and popular light metals. The Smithells Light Metals Handbook,

with its combination of comprehensive data on properties, standards and international materials specifications coupled with other unique features like the extensive section of binary phase diagrams, will no doubt become a standard reference work for the industrial and theoretical metallurgist. Containing all the data that you will ever need with respect to Aluminium, Magnesium and Titanium, this book will be an invaluable tool for anyone working in the design, manufacture or use of components or raw materials in these areas. The standard reference work for metallurgists Contains all data for researchers and professional metallurgists Fully updated

Mah Jongg: The Art of the Game - Ann Israel 2014-11-18

"I thoroughly enjoyed this book. Whether used as a reference or a beautiful keepsake, it's a very worthy addition to the world of Mah Jongg." —Ruth Unger, President, National Mah Jongg League This is the first book to fully capture the story of the exotic and exciting game of Mahjong or "Mah Jongg", offering an intimate look at the history of the game as well as the visual beauty of the tiles. When authors Ann Israel and Gregg Swain began playing Mahjong, they were unaware of the vintage collections that existed not only in the United States but also across the globe. Slowly, they started to collect their own sets of Mahjong and as their collections grew, so did their appreciation of the history of, and interest in, the game. Finding few references, Israel and Swain set out to create a book that chronicles the early beginnings of the game and documents Mahjong sets from the most basic, made simply of paper, to the most precious materials such as ivory and mother-of-pearl. Recognized and respected scholars and game experts have collaborated with Israel and Swain, contributing important chapters on the game's history and its pieces as well as technical information on the tiles. Lastly, great collectors from around the globe have shared their incredible sets and memories for the first time in one book for everyone to enjoy. With hundreds of beautiful new images by renowned photographer Michel Arnaud, and including historical documentation and ephemera, Mah Jongg: The Art of the Game fills the void between the past's and today's game, providing vision, inspiration and resources. Anyone who has ever been intrigued by a Mahjong tile will find in these pages visually stunning photographs that will entice them into becoming an enthusiast of the timeless game of Mahjong.

Tissue-Engineered Vascular Grafts - Beat H. Walpoth 2020-08-21

Cardiovascular diseases are still the leading cause of death in developed countries. Revascularization procedures such as coronary artery and peripheral bypass grafts, as well as access surgery represent a 2$ billion market yearly for the US alone. Despite intense research over many decades, no clinically suitable, shelf-ready, synthetic, vascular, small-caliber graft exists. There is therefore still a quest for such a clinical vascular prosthesis for surgical revascularization procedures and access surgery. Many approaches have been tried and are currently under investigation with promising results. These range from acellular and cell-based, stable or bio-degradable, synthetic scaffolds to biological or decellularized grafts, not forgetting self-assembly technologies for in vitro or in vivo VTE. All these approaches can be further enhanced by functionalization, e.g. with growth factors and drug elution. This updatable book aims to cover all the relevant aspects of Vascular Tissue Engineering (VTE) and novel alternatives to develop vascular grafts for clinical applications. The chapters in this book cover different aspects of manufacturing scaffolds with various polymers, mechanical characteristics, degradation rates, decellularization techniques, cell sheet assembly, 3-D printing and autologous mandril-based VTE. All the necessary in vitro tests such as biocompatibility and thrombogenicity are reviewed. Pre-clinical assessment of in vivo experimental models include patency, compliance, intimal hyperplasia, inflammatory reaction, cellular ingrowth and remodeling. Finally, early clinical trials will be periodically updated regarding results, regulatory aspects and post-marketing quality assessment. Furthermore, the reader should get an insight into various approaches, technologies and methods to better understand the complexity of blood surface and cell interactions in VTE. Translational research has yielded early human applications clearly showing the enormous need of research in the field to provide better solutions for our patients and this continuously updated book will hopefully become a reference in the field for life

sciences.

Advanced Dietary Fibre Technology - Barry McCleary 2008-05-27

Dietary fibre technology is a sophisticated component of the food industry. This highly practical book presents the state-of-the-art and explains how the background science translates into commercial reality. An international team of experts has been assembled to offer both a global perspective and the nuts and bolts information relevant to those working in the commercial world. Coverage includes specific dietary fibre components (with overviews of chemistry, analysis and regulatory aspects of all key dietary fibres); measurement of dietary fibre and dietary fibre components (in-vitro and in-vivo); general aspects (eg chemical and physical nature; rheology and functionality; nutrition and health; and technological) and current hot topics. Ideal as an up-to-date overview of the field for food technologists; nutritionists and quality assurance and production managers.

Clinical Oncology - Martin D. Abeloff 2000

A must-have reference, this new edition provides practical information on treatment guidelines, details of diagnosis and therapy, and personal recommendations on patient management from experts in the field. Consistently formatted chapters allow for a user-friendly presentation for quick access of key information by the practicing clinician. Completely updated, this new edition includes all of the latest developments in treatment strategies of medical, surgical and radiation oncologists.

Quality Control of Herbal Medicines and Related Areas - Yukihiro Shoyama 2011-11-04

The authors of this thematic issue provide a comprehensive summary of most recent knowledge and references on quality control in wide fields. Quality control is essential for natural products like natural medicine and related food products. In this issue fifteen chapters have been included, discussing in detail various aspects of quality control. It will certainly prove useful not only for phytochemical researchers, but also many scientists working in numerous fields. Much effort has been invested by the contributors to share current information. Without their efforts and input 'Quality Control of Herbal Medicine and Related Areas' could not exist.

Surrogate Model-Based Engineering Design and Optimization - Ping Jiang 2019-11-01

This book covers some of the most popular methods in design space sampling, ensembling surrogate models, multi-fidelity surrogate model construction, surrogate model selection and validation, surrogate-based robust design optimization, and surrogate-based evolutionary optimization. Surrogate or metamodels are now frequently used in complex engineering product design to replace expensive simulations or physical experiments. They are constructed from available input parameter values and the corresponding output performance or quantities of interest (QOIs) to provide predictions based on the fitted or interpolated mathematical relationships. The book highlights a range of methods for ensembling surrogate and multi-fidelity models, which offer a good balance between surrogate modeling accuracy and building cost. A number of real-world engineering design problems, such as three-dimensional aircraft design, are also provided to illustrate the ability of surrogates for supporting complex engineering design. Lastly, illustrative examples are included throughout to help explain the approaches in a more “hands-on” manner.

Reeds Nautical Almanac 2020 - Perrin Towler 2019-08-29

Reeds Nautical Almanac is the indispensable trusted annual compendium of navigational data for yachtsmen and motorboaters, and provides all the information required to navigate Atlantic coastal waters around the whole of the UK, Ireland, Channel Islands and the entire European coastline from the tip of Denmark right down to Gibraltar, Northern Morocco, the Azores and Madeira. The 2020 edition continues the Almanac's tradition of year on year improvement and meticulous presentation of all the data required for safe navigation. Now with an improved layout for easier reference and with over 45,000 annual changes, it is regarded as the bible of almanacs for anyone going to sea. The 2020 edition is updated throughout, containing over 45,000 changes, and includes: 700 harbour chartlets; tide tables and tidal streams; buoyage and lights; 7,500 waypoints; invaluable passage notes; distance tables; radio,

weather and safety information; first aid section. Also: a free Marina Guide. Also available: free supplements of up-to-date navigation changes from January to June at: www.reedsnauticalalmanac.co.uk

Handbook of Intelligent Vehicles - Azim Eskandarian 2012-02-26

The Handbook of Intelligent Vehicles provides a complete coverage of the fundamentals, new technologies, and sub-areas essential to the development of intelligent vehicles; it also includes advances made to date, challenges, and future trends. Significant strides in the field have been made to date; however, so far there has been no single book or volume which captures these advances in a comprehensive format, addressing all essential components and subspecialties of intelligent vehicles, as this book does. Since the intended users are engineering practitioners, as well as researchers and graduate students, the book chapters do not only cover fundamentals, methods, and algorithms but also include how software/hardware are implemented, and demonstrate the advances along with their present challenges. Research at both component and systems levels are required to advance the functionality of intelligent vehicles. This volume covers both of these aspects in addition to the fundamentals listed above.

Polymorphism in the Pharmaceutical Industry - Rolf Hilfiker 2019-01-04

"Polymorphism in the Pharmaceutical Industry - Solid Form and Drug Development" highlights the relevance of polymorphism in modern pharmaceutical chemistry, with a focus on quality by design (QbD) concepts. It covers all important issues by way of case studies, ranging from properties and crystallization, via thermodynamics, analytics and theoretical modelling right up to patent issues. As such, the book underscores the importance of solid-state chemistry within chemical and pharmaceutical development. It emphasizes why solid-state issues are important, the approaches needed to avoid problems and the opportunities offered by solid-state properties. The authors include true polymorphs as well as solvates and hydrates, while providing information on physicochemical properties, crystallization thermodynamics, quantum-mechanical modelling, and up-scaling. Important analytical tools to characterize solid-state forms and to quantify mixtures are summarized, and case studies on solid-state development processes in industry are also provided. Written by acknowledged experts in the field, this is a high-quality reference for researchers, project managers and quality assurance managers in pharmaceutical, agrochemical and fine chemical companies as well as for academics and newcomers to organic solid-state chemistry.

The Aboriginal Tent Embassy - Gary Foley 2013-07-24

The 1972 Aboriginal Embassy was one of the most significant indigenous political demonstrations of the twentieth century. What began as a simple response to a Prime Ministerial statement on Australia Day 1972, evolved into a six-month political stand-off between radical Aboriginal activists and a conservative Australian government. The dramatic scenes in July 1972 when police forcibly removed the Embassy from the lawns of the Australian Houses of Parliament were transmitted around the world. The demonstration increased international awareness of the struggle for justice by Aboriginal people, brought an end to the national government policy of assimilation and put Aboriginal issues firmly onto the national political agenda. The Embassy remains today and on Australia Day 2012 was again the focal point for national and international attention, demonstrating the intensity that the Embassy can still provoke after forty years of just sitting there. If, as some suggest, the Embassy can only ever be removed by Aboriginal people achieving their goals of Land Rights, Self-Determination and economic independence then it is likely to remain for some time yet. ‘This book explores the context of this moment that captured the world’s attention by using, predominantly, the voices of the people who were there. More than a simple oral history, some of the key players represented here bring with them the imprimatur of the education they were to gain in the era after the Tent Embassy. This is an act of radicalisation. The Aboriginal participants in subversive political action have now broken through the barriers of access to academia and write as both eye-witnesses and also as trained historians, lawyers, film-makers. It is another act of subversion, a continuing taunt to the entrenched institutions of the

dominant culture, part of a continuum of political thought and action.' (Larissa Behrendt, Professor of Law, Jumbunna Indigenous House of Learning, University of Technology Sydney)
Multiple Emulsions - Jean Louis Grossiord 1998-01-01

Stunts: The How to Handbook: Secrets from an Award Winning Hollywood Stunt Woman - Angela Meryl 2012-10-02
A tried and proven "How To" guide for men and women interested in beginning or advancing a successful career in Hollywood, performing stunts professionally is told by award winning, veteran stuntwoman--Angela Meryl. When not jumping off roof tops for people like Oprah Winfrey, Meryl is known to double such A-list beauties as Beyonce, Halle Berry, Vivica A. Fox, Rihanna and more.
Cisco IOS XR Fundamentals - Mobeen Tahir 2009-06-01
Cisco IOS XR Fundamentals is a systematic, authoritative guide to configuring routers with Cisco IOS® XR, the next-generation flagship Cisco® Internet operating system. In this book, a team of Cisco experts brings together quick, authoritative, and example-rich reference information for all the commands most frequently used to configure and troubleshoot Cisco IOS XR-based routers in both service provider and enterprise environments. The authors walk you through the details of the Cisco IOS XR architecture and explain commands in the new Cisco IOS XR CLI wherever required. They present concise explanations of service provider requirements and internetwork theory, backed by proven sample configurations for IOS XR services, MPLS, multicast, system management, system security, routing, and interfaces. Cisco IOS XR Fundamentals is an indispensable resource for designing, implementing, troubleshooting, administering, or selling networks containing Cisco IOS XR–supported routers. This is the only Cisco IOS XR book that: Clearly explains how Cisco IOS XR meets the emerging requirements of both current and future networks Gives network professionals extensive information for simplifying migration and taking full advantage of Cisco IOS XR's new power Presents detailed, tested configuration examples that network professionals can apply in their own networks Walks through using new Cisco IOS XR features and the In-Service Software Upgrade (ISSU) process to minimize downtime and cost Use Cisco IOS XR to deliver superior scalability, availability, security, and service flexibility Understand the Cisco IOS XR distributed, modular architecture Design, implement, and troubleshoot networks containing Cisco IOS XR–supported routers Configure Cisco IOS XR routing, including RIP, IS-IS, OSPF, and EIGRP Learn BGP implementation details specific to Cisco IOS XR and using RPL to influence policies Manage IP addresses and Cisco IOS XR services Secure Cisco IOS XR using standard and extended ACLs, prefix lists, and uRPF Master all facets of MPLS configuration, including LDP, L3VPN, and TE Configure PIM, IGMP, and static RP multicast Optimize networks using advanced Cisco IOS XR features, including secure domain routers Learn building blocks of Multishelf, and understand configurations and migration techniques This book is part of the Cisco Press® Fundamentals Series. Books in this series introduce networking professionals to new networking technologies, covering network topologies, sample deployment concepts, protocols, and management techniques.
Geotechnical Centrifuge Technology - R.N. Taylor 2003-09-02
This book provides a thorough review of this powerful and sophisticated technique for modelling soil structure interactions. It has been written by an international team of authors.
Bioanalysis of Pharmaceuticals - Steen Honoré Hansen 2015-07-20
Bioanalysis of Pharmaceuticals: Sample Preparation, Separation Techniques and Mass Spectrometry is the first student textbook on the separation science and mass spectrometry of pharmaceuticals present in biological fluids with an educational presentation of the principles, concepts and applications. It discusses the chemical structures and properties of low- and high-molecular drug substances; the different types of biological samples and fluids that are used; how to prepare the samples by extraction, and how to perform the appropriate analytical measurements by chromatographic and mass spectrometric methods. Bioanalysis of Pharmaceuticals: Sample Preparation, Separation Techniques and

Mass Spectrometry: Is an introductory student textbook discussing the different principles and concepts clearly and comprehensively, with many relevant and educational examples Focuses on substances that are administered as human drugs, including low-molecular drug substances, peptides, and proteins Presents both the basic principles that are regularly taught in universities, along with the practical use of bioanalysis as carried out by researchers in the pharmaceutical industry and in hospital laboratories Is aimed at undergraduate students, scientists, technicians and researchers in industry working in the areas of pharmaceutical analyses, biopharmaceutical analyses, biological and life sciences The book includes multiple examples to illustrate the theory and application, with many practical aspects including calculations, thus helping the student to learn how to convert the data recorded by instruments into the real concentration of the drug substances within the biological sample.

How to Pass OSCP Series: Windows Privilege Escalation Step-By-Step Guide - Alan Wang 2020-11-13

This book is the first of a series of How To Pass OSCP books and focus on techniques used in Windows Privilege Escalation. This is a step-by-step guide that walks you through the whole process of how to escalate privilege in Windows environment using many common techniques. We start by gathering as much information about the target as possible either manually or using automated scripts. Next, we search for misconfigured services or scheduled tasks, insufficient file permission on binaries or services, vulnerable kernel, vulnerable software running with high privileges, sensitive information stored on local files, credential saved in the memory, registry settings that always elevate privileges before executing a binary, hard-coded credential contained in the application configuration files, and many more. Table of Contents Introduction Section One: Windows Configuration Chapter 1: AlwaysInstallElevated Section Two: Domain Controller Chapter 2: Zerologon Section Three: Windows Service Chapter 3: Service - Insecure File Permission Chapter 4: Service - Unquoted Path Chapter 5: Service - Bin Path Chapter 6: Service - Registry Chapter 7: Service - DLL Hijacking Section Four: Scheduled Tasks Chapter 8: Scheduled Tasks Section Five: Windows Registry Chapter 9: Autorun Chapter 10: Startup Applications Section Six: Windows Kernel Chapter 11: Kernel - EternalBlue Chapter 12: Kernel - MS15-051 Chapter 13: Kernel - MS14-058 Section Seven: Potato Exploits Chapter 14: Juicy Potato Chapter 15: Rogue Potato Section Eight: Password Mining Chapter 16: Password Mining - Memory Chapter 17: Password Mining - Registry Chapter 18: Password Mining - SiteList Chapter 19: Password Mining - Unattended Chapter 20: Password Mining - Web.config Section Nine: UAC Bypass Chapter 21: User Account Control Bypass For more information, please visit http://www.howtopassoscp.com/.

Fast Scanning Calorimetry - Christoph Schick 2016-06-28

In the past decades, the scan rate range of calorimeters has been extended tremendously at the high end, from approximately 10 up to 10 000 000 °C/s and more. The combination of various calorimeters and the newly-developed Fast Scanning Calorimeters (FSC) now span 11 orders of magnitude, by which many processes can be mimicked according to the time scale(s) of chemical and physical transitions occurring during cooling, heating and isothermal stays in case heat is exchanged. This not only opens new areas of research on polymers, metals, pharmaceuticals and all kinds of substances with respect to glass transition, crystallization and melting phenomena, it also enables in-depth study of metastability and reorganization of samples on an 1 to 1000 ng scale. In addition, FSC will become a crucial tool for understanding and optimization of processing methods at high speeds like injection molding. The book resembles the state-of-the art in Thermal Analysis & Calorimetry and is an excellent starting point for both experts and newcomers in the field.

Cyclodextrin Fundamentals, Reactivity and Analysis - Sophie Fourmentin 2018-04-26

This book is the first volume of two volumes on cyclodextrins published in the series Environmental Chemistry for a Sustainable World. After a brief description of the cyclodextrin fundamentals, the first chapter by Grégorio Crini et al. provides an overview of cyclodextrin research during the last 5 years. The second chapter by Michal Řezanka discusses the synthesis of novel cyclodextrin systems by selective modifications. Then Eric Monflier et al. describes the synthesis of nanostructured porous materials based

on cyclodextrins, and applications in heterogeneous catalysis and photocatalysis. The use of thermal analyses for assessing cyclodextrin inclusion complexes is reviewed in chapter 4 by Daniel Hădărugă et al. Experimental methods for measuring binding constants of cyclodextrin inclusion compounds are presented by David Landy. The second volume reviews cyclodextrin applications in medicine, food, environment and liquid crystals.

SI Combustion - 2003

Integrated Omics Approaches to Infectious Diseases - Saif Hameed 2021-07-18

This book examines applications of multi-omics approaches for understanding disease etiology, pathogenesis, host-pathogen interactions. It also analyzes the genetics, immunological and metabolic mechanisms underlying the infections. The book also explores genomics, transcriptomics, translational-omics, and metabolomics approaches to understand the pathogenesis and identify potential drug targets. It reviews the role of epigenetic reprogramming in shaping the host-pathogen interactions and presents bioinformatics application in the identification of drug targets. Further, it examines the potential applications of RNA sequencing and non-coding RNA profiling to identify the pathogenesis. Lastly, it offers the current challenges, technological advances, and prospects of using multi-omics technologies in infectious biology.

Park Practice Program Index - 1984