

Pharmaceutical Emulsions And Suspensions Gbv

Pursuing Intersectionality, Unsettling Dominant Imaginaries offers a sustained, interdisciplinary exploration of intersectional ideas, histories, and practices that no other text does. Deftly synthesizing much of the existing literatures on intersectionality, one of the most significant theoretical and political precepts of our time, May invites us to confront a disconcerting problem: though intersectionality is widely known, acclaimed, and applied, it is often construed in ways that depoliticize, undercut, or even violate its most basic premises. May cogently demonstrates how intersectionality has been repeatedly resisted, misunderstood, and misapplied: provocatively, she shows the degree to which intersectionality is often undone or undermined by supporters and critics alike. A clarion call to engage intersectionality's radical ideas, histories, and justice orientations more meaningfully, Pursuing Intersectionality answers the basic questions surrounding intersectionality, attends to its historical roots in Black feminist theory and politics, and offers insights and strategies from across the disciplines for bracketing dominant logics and for orienting toward intersectional dispositions and practices.

This book addresses the important physical phenomenon of Surface Plasmon Resonance or Surface Plasmon Polaritons in thin metal films, a phenomenon which is exploited in the design of a large variety of physico-chemical optical sensors. In this treatment, crucial materials aspects for design and optimization of SPR sensors are investigated and outlined in detail. The text covers the selection of nanometer thin metal films, ranging from free-electron to the platinum type conductors, along with their combination with a large variety of dielectric substrate materials, and associated individual layer and opto-geometric arrangements. Furthermore, as-yet hardly explored SPR features of selected metal-metal and metal-dielectric super lattices are included in this report. An in-depth multilayer Fresnel evaluation provides the mathematical tool for this optical analysis, which otherwise relies solely on experimentally determined electro-optical materials parameters.

The third edition of Pharmaceutical Process Scale-Up deals with the theory and practice of scale-up in the pharmaceutical industry. This thoroughly revised edition reflects the rapid changes in the field and includes: New material on tableting scale-up and compaction. Regulatory appendices that cover FDA and EU Guidelines. New chapters on risk evaluation and validation as related to scale-up. Practical advice on scale-up solutions from world renowned experts in the field. Pharmaceutical Process Scale-Up, Third Edition will provide an excellent insight in to the practical aspects of the process scale-up and will be an invaluable source of information on batch enlargement techniques for formulators, process engineers, validation specialists and quality assurance personnel, as well as production managers. It will also provide interesting reading material for anyone involved in Process Analytical Technology (PAT), technology transfer and product globalization.

A study of workers struggles against management regimes in Britain's car industry from the Second World War to the late 1980s.

Stressing the theory involved in formulating suspensions, emulsions, and colloidal drug products, this Second Edition of a well-received reference text highlights typical formulations, the avoidance of formulation pitfalls, and compliance with established regulatory principles.

This book reviews the latest research on bioproducts from various economically important insects, such as silkworms, honey bees, lac and drosophila, and termites, and discusses their general, biomedical and industrial applications in detail. It includes chapters focusing on insects as a food source, probiotics, silk-based biomaterials, insect pheromones, insects as biomedicine source, pupa oil chemistry, non-protein compounds from Lepidopteran insects, insect chitin and chitosan, polyphenols and flavonoids. Model insects like Bombyx mori or bees were domesticated in Asian countries thousands of years ago. Over time, natural products from these animals became industrialized and today they attracting increasing attention thanks to their sustainability and their manifold applications in agriculture and biomedicine. The book is intended for entomologists, material scientists, natural product researchers and biotechnologists.

Sustained-Release Injectable Products focuses on the development process for sustained-release versions of drugs and delivery systems and administration routes. From the rationale and basic product development principles to regulatory issues and the approval process, expert contributions address virtually every aspect. They bring together common threads that apply to any sustained-release formulation, such as scale-up, safety, biocompatibility, analytical challenges, and quality assurance.

Nanostructured Materials for Next-Generation Energy Storage and Conversion: Photovoltaic and Solar Energy, is volume 4 of a 4-volume series on sustainable energy. Photovoltaic and Solar Energy while being a comprehensive reference work, is written with minimal jargon related to various aspects of solar energy and energy policies. It is authored by leading experts in the field, and lays out theory, practice, and simulation studies related to solar energy and allied applications including policy, economic and technological challenges. Topics covered include: introduction to solar energy, fundamentals of solar radiation, heat transfer, thermal collection and conversion, solar economy, heating, cooling, dehumidification systems, power and process heat, solar power conversion, policy and applications pertinent to solar energy as viable alternatives to fossil fuels. The aim of the book is to present all the information necessary for the design and analysis of solar energy systems for engineers, material scientists, economics, policy analysts, graduate students, senior undergraduates, solar energy practitioner, as well as policy or lawmakers in the field of energy policy, international energy trade, and libraries which house technical handbooks related to energy, energy policy and applications.

This book brings together the many concepts and discoveries in liquid crystal colloids contributed over the last twenty years and scattered across numerous articles and book chapters. It provides both a historical overview of the development of the field and a clear perspective on the future applications in photonics. The book covers all phenomena observed in liquid crystal colloids with an emphasis on experimental tools and applications of topology in condensed matter, as well as practical micro-photonics applications. It includes a number of spectacular manifestations of new topological phenomena not found or difficult to observe in other systems. Starting from the early works on nematic colloids, it explains the basics of topological defects in ordered media, charge and winding, and the elastic forces between colloidal particles in nematics. Following a detailed description of experimental methods, such as optical tweezing and particle tracking, the book eases the reader into the theoretical part, which deals with elastic deformation of nematic liquid crystals due to inclusions and surface alignment. This is discussed in the context of basic mean field Landau-de Gennes Q-tensor theory, with a brief explanation of the free-energy minimization numerical methods. There then follows an excursion into the topology of complex nematic colloidal structures, colloidal entanglement, knotting and linking. Nematic droplets, shells, handlebodies and chiral topological structures are addressed in separate chapters. The book concludes with an extensive chapter on the photonic properties of nematic dispersions, presenting the concept of integrated soft matter photonics and discussing the concepts of nematic and chiral nematic microlasers, surface-sensitive photonic devices and smectic microfibers. The text is complemented by a large bibliography, explanatory sketches and beautiful micrographs.

The field of nanotechnology has developed very rapidly over the past decade lending great promise to medical applications in drug delivery, therapeutics, and biological imaging. Due to the

great promise, rapid development, and broad application of nanomaterials, it is imperative that researchers from development through application seek a thorough understanding of nanotoxicity. *Nanotoxicity: Methods and Protocols* address the special considerations when applying toxicity studies to nanomaterials and detail newly developed methods for the study of nanotoxicity. These diverse methods span in vitro cell culture, model tissues, in situ exposure, in vivo models, analysis in plants, and mathematical modeling, proving to be relevant to pharmaceutical scientists, material scientists, bioengineers, toxicologists, environmentalists, immunologists, and cellular and molecular biologists, to name a few. As part of the highly successful *Methods in Molecular Biology*TM, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Comprehensive and cutting-edge, *Nanotoxicity: Methods and Protocols* aims to diversify the capabilities of current researchers involved in nanotoxicology and to enable researchers in related fields to expand their knowledge of how nanomaterials interface with the biological environment.

Flavonoids are abundant secondary metabolites found in plants and fungi that have various roles in these organisms, including pigmentation, cell signalling, plant defence and inter-organism communication. Due to their abundance in nature, flavonoids are also important components of the human diet, and the last four decades have seen an intense study focused on the structure characterization of flavonoids and on their roles in mammal metabolism. This book reviews most of the well-established activities of flavonoids, and we also present more recent research studies on the area of flavonoids, including the chemical aspects of structure characterization of flavonoids, the biosynthesis of flavonoids in model plants as well as their role in abiotic stress situations and in agriculture, the role of flavonoids in metabolism and health and their importance in foods, from consumption to their use as bioactive components.

This 6th edition of the established textbook covers every aspect of drug properties from the design of dosage forms to their delivery by all routes to sites of action in the body.

This edition of *Pharmaceutical Practice* replaces the 12th edition of Cooper and Gunn's *Dispensing for Pharmaceutical Students* and has a redesigned and updated content. Written by specialists in pharmacy education and practice it aims to provide a sound base for all aspects of the work.

Twelve Years a Slave (1853) is a memoir and slave narrative by Solomon Northup, as told to and edited by David Wilson. Northup, a black man who was born free in New York, details his kidnapping in Washington, D.C. and subsequent sale into slavery. After having been kept in bondage for 12 years in Louisiana by various masters, Northup was able to write to friends and family in New York, who were in turn able to secure his release. Northup's account provides extensive details on the slave markets in Washington, D.C. and New Orleans and describes at length cotton and sugar cultivation on major plantations in Louisiana.

Physicochemical Principles of Pharmacy In Manufacture, Formulation and Clinical Use Pharmaceutical Press

Pharmaceutics is one of the most diverse subject areas in all of pharmaceutical science. In brief, it is concerned with the scientific and technological aspects of the design and manufacture of dosage forms or medicines. An understanding of pharmaceutics is therefore vital for all pharmacists and those pharmaceutical scientists who are involved with converting a drug or a potential drug into a medicine that can be delivered safely, effectively and conveniently to the patient. Now in its fourth edition, this best-selling textbook in pharmaceutics has been brought completely up to date to reflect the rapid advances in delivery methodologies by eye and injection, advances in drug formulations and delivery methods for special groups (such as children and the elderly), nanomedicine, and pharmacognosy. At the same time the editors have striven to maintain the accessibility of the text for students of pharmacy, preserving the balance between being a suitably pitched introductory text and a clear reflection of the state of the art. provides a logical, comprehensive account of drug design and manufacture includes the science of formulation and drug delivery designed and written for newcomers to the design of dosage forms New to this edition New editor: Kevin Taylor, Professor of Clinical Pharmaceutics, School of Pharmacy, University of London. Twenty-two new contributors. Six new chapters covering parenteral and ocular delivery; design and administration of medicines for the children and elderly; the latest in plant medicines; nanotechnology and nanomedicines, and the delivery of biopharmaceuticals. Thoroughly revised and updated throughout.

Digital media histories are part of a global network, and South Asia is a key nexus in shaping the trajectory of digital media in the twenty-first century. Digital platforms like Facebook, WhatsApp, and others are deeply embedded in the daily lives of millions of people around the world, shaping how people engage with others as kin, as citizens, and as consumers. Moving away from Anglo-American and strictly national frameworks, the essays in this book explore the intersections of local, national, regional, and global forces that shape contemporary digital culture(s) in regions like South Asia: the rise of digital and mobile media technologies, the ongoing transformation of established media industries, and emergent forms of digital media practice and use that are reconfiguring sociocultural, political, and economic terrains across the Indian subcontinent. From massive state-driven digital identity projects and YouTube censorship to Tinder and dating culture, from Twitter and primetime television to Facebook and political rumors, *Global Digital Cultures* focuses on enduring concerns of representation, identity, and power while grappling with algorithmic curation and data-driven processes of production, circulation, and consumption.

Children's palliative care has developed rapidly as a discipline, as health care professionals recognise that the principles of adult palliative care may not always be applicable to children at the end of life. The unique needs of dying children are particularly evident across Africa, where the scale of the problem is overwhelming and the figures so enormous that they are barely comprehensible. Written by a group with wide experience of caring for dying children in Africa, this book provides practical, realistic guidance on improving access to, and delivery of, palliative care in this demanding setting. It looks at the themes common to palliative care - including communication, assessment, symptom management, psychosocial issues, ethical dilemmas, end of life care, and tips for the professional on compassion and conservation of energy - but always retains the focus on the particular needs of the health care professional in Africa. Whilst containing some theory, the emphasis is on practical action throughout. It will provide health care professionals working in Africa, and other resource-poor settings, with the confidence, knowledge, and capacity to improve care for the terminally ill child in constrained and demanding environments.

This book provides the physicochemical background to the design and use of pharmaceutical dosage forms. It goes beyond the introductory aspects of the subject to show how basic physicochemical principles are essential to an understanding of every aspect of drug action, from the dosage form to the site of action in the body. This is not a textbook of physical chemistry for pharmacists, but is a book which bridges the gap between basic first-year physical chemistry and the more applied practice of later years. This extensively revised second edition includes

much new material, illustrations and references to take into account recent scientific developments and curriculum changes.

A concise guide providing the physicochemical background to the design and use of pharmaceutical dosage forms. This FASTtrack book is derived from the textbook Physicochemical Principles of Pharmacy and is designed to be used alongside it for those revision periods when time is short. It includes key points, tips, self assessment questions/answers and memory maps to aid with revision. For the new edition there will be an additional chapter on pharmaceutical nanotechnology.

An extremely practical text, this new edition of Diseases of the Liver and Biliary System in Children covers the essentials of paediatric hepatology. The range of material is wide and has been revised and updated to include the latest advances. Many helpful algorithms and tables are included and the references at the end of each chapter have been carefully selected so as to provide the most up-to-date information available. A concluding section comprising some 100 carefully annotated plates, completes this text. Containing the contributions of 23 internationally acclaimed authorities, active both clinically and in research, the book provides an essential guide to the diagnosis and management of paediatric liver diseases, both common and uncommon for all those involved in the care of the child with liver disease. Diseases of the Liver and Biliary System in Children has become THE REFERENCE of choice for the paediatric gastroenterologist, hepatologist and surgeon.

Stockley's Drug Interactions, now fully revised and revalidated, remains the world's most comprehensive and authoritative reference book on drug interactions and provides the busy healthcare professional with quick and easy access to clinically relevant, evaluated and evidence-based information on drug interactions. Contains detailed yet concise monographs: covers interactions between therapeutic drugs, proprietary medicines, herbal medicines, foods, drinks, pesticides and drugs of abuse; based on published sources and fully referenced; provides comprehensive details of the clinical evidence for the interactions under discussion, an assessment of their clinical importance and gives clear guidance on how to manage the interaction in practice; contains over 3,400 monographs; New drugs launched in the last two years added - including drugs such as fesoterodine, several monoclonal antibodies, new antidiabetics (e.g. sitagliptin) new antineoplastics (e.g. dasatinib) and new immunosuppressants (e.g. temsirolimus); updated information on seasonal flu vaccines and antivirals, including all available information on possible interactions with concurrent medication; increased commentary on the involvement of newer mechanisms in drug interactions, such as drug transporter proteins, and other genetic factors that affect the ability of individuals to metabolise medicines.

A Really Practical Handbook of Children's Palliative Care for Doctors and Nurses Anywhere in the World offers really practical solutions to common problems faced by health professionals caring for dying children and their families, whatever their culture

Humanitarianism: Keywords is a comprehensive dictionary designed as a compass for navigating the conceptual universe of humanitarianism.

This comprehensive book covers a wide range of subjects relevant to pharmacy practice, including communication skills, managing a business, quality assurance, dispensing, calculations, packaging, storage and labeling of medicines, sterilization, prescriptions, hospital-based services, techniques and treatments, adverse drug reactions, pharmacoeconomics, and medicines management. Features useful appendices on medical abbreviations, pharmaceutical Latin terms, weights and measures, and presentation skills. This is a core text for pharmacy practice and dispensing modules of the pharmacy curriculum Covers key exam material for essential review and test preparation Features a user-friendly design with clear headings, chapter summaries, helpful boxes, and key points Text restructured with 14 new or radically revised chapters. All text revised in light of current pharmaceutical practice. New design using two colours.

Vaccinology, the concept of a science ranging from the study of immunology to the development and distribution of vaccines, was a word invented by Jonas Salk. This book covers the history of the methodological progress in vaccine development and to the social and ethical issues raised by vaccination. Chapters include "Jenner and the Vaccination against Smallpox," "Viral Vaccines," and "Ethical and Social Aspects of vaccines." Contributing authors include pioneers in the field, such as Samuel L. Katz and Hilary Koprowski. This history of vaccines is relatively short and many of its protagonists are still alive. This book was written by some of the chief actors in the drama whose subject matter is the conquest of epidemic disease.

Covering the important task of the scale-up of processes from the laboratory to the production scale, this easily comprehensible and transparent book is divided into two sections. The first part details the theoretical principles, introducing the subject for readers without a profound prior knowledge of mathematics. It discusses the fundamentals of dimensional analysis, the treatment of temperature-dependent and rheological material values and scale-up where model systems or not available or only partly similar. All this is illustrated by 20 real-world examples, while 25 exercises plus solutions new to this edition practice and monitor learning. The second part presents the individual basic operations and covers the fields of mechanical, thermal, and chemical process engineering with respect to dimensional analysis and scale-up. The rules for scale-up are given and discussed for each operation. Other additions to this second edition are dimensional analysis of pelleting processes, and a historical overview of dimensional analysis and modeling, while all the chapters have been updated to take the latest literature into account. Written by a specialist with more than 40 years of experience in the industry, this book is specifically aimed at students as well as practicing engineers, chemists and process engineers already working in the field.

An introduction to pharmaceutical chemistry for undergraduate pharmacy, chemistry and medicinal chemistry students. Essentials of Pharmaceutical Chemistry is a chemistry introduction that covers all of the core material necessary to provide an understanding of the basic chemistry of drug molecules. Now a core text on many university courses, it contains numerous worked examples and problems. The 4th edition includes new chapters on Chromatographic Methods of Analysis, and Medicinal Chemistry - The Science of Drug Design.

This revised and expanded Third Edition contains 21 chapters summarizing the latest thinking on various technologies relating to metalworking fluid development, laboratory evaluation, metallurgy, industrial application, fluid maintenance, recycling, waste treatment, health, government regulations, and cost/benefit analysis. All chapters of this uniquely comprehensive reference have been thoroughly updated, and two new chapters on rolling of metal flat sheets and nanoparticle lubricants in metalworking have been added. This must-have book for anyone in the field of metalworking includes new information on chemistries of the most common types of metalworking fluids, advances in recycling of metalworking fluids, and the latest government regulations, including EPA standards, the Globally Harmonized System being implemented for safety data sheets, and REACH legislation in Europe.

Provides pharmacists with the information needed to make sound decisions and give patients accurate advice in nutrition counseling. Based on a survey conducted by the American Pharmaceutical Association, this book equips pharmacists with the knowledge to advise patients on nutrition, weight control, diet and disease, nutrient-drug interactions, pediatric nutrition, enteral and parenteral nutrition, ergogenic aids, and herbal supplements. The book's nine chapters have been thoroughly researched and

referenced, and highly useful appendices include dietary reference intakes and tolerable upper intake levels, selected nutrition references, and selected Websites. This book addresses the design of emerging conceptual tools, technologies and systems including novel synthetic parts, devices, circuits, oscillators, biological gates, and small regulatory RNAs (riboregulators and riboswitches), which serve as versatile control elements for regulating gene expression. Synthetic biology, a rapidly growing field that involves the application of engineering principles in biology, is now being used to develop novel systems for a wide range of applications including diagnostics, cell reprogramming, therapeutics, enzymes, vaccines, biomaterials, biofuels, fine chemicals and many more. The book subsequently summarizes recent developments in technologies for assembling synthetic genomes, minimal genomes, synthetic biology toolboxes, CRISPR-Cas systems, cell-free protein synthesis systems and microfluidics. Accordingly, it offers a valuable resource not only for beginners in synthetic biology, but also for researchers, students, scientists, clinicians, stakeholders and policymakers interested in the potential held by synthetic biology.

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