

handbook of pharmaceutical excipients 8th edition

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Explore the essential 'Handbook of Pharmaceutical Excipients, 8th Edition', an authoritative reference for pharmacists, formulators, and researchers. This comprehensive guide details the properties, uses, and safety data for a wide range of excipients crucial to drug formulation, ensuring optimal product development and regulatory compliance.

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Handbook of Pharmaceutical Excipients

The Handbook of Pharmaceutical Excipients is a comprehensive, uniform guide to the uses, properties, and safety of pharmaceutical excipients. It collects in a systematic and unified manner, essential data on the physical and chemical properties of excipients. Information has been assembled from a variety of sources, including the primary literature and excipients manufacturers. Personal observations and comments from contributors are also included.

Handbook of Pharmaceutical Excipients

An internationally acclaimed reference work recognized as one of the most authoritative and comprehensive sources of information on excipients used in pharmaceutical formulation with this new edition providing 340 excipient monographs. Incorporates information on the uses, and chemical and physical properties of excipients systematically collated from a variety of international sources including: pharmacopeias, patents, primary and secondary literature, websites, and manufacturers' data; extensive data provided on the applications, licensing, and safety of excipients; comprehensively cross-referenced and indexed, with many additional excipients described as related substances and an international supplier's directory and detailed information on trade names and specific grades or types of excipients commercially available.

HANDBOOK OF PHARMACUETICAL EXCIPIENTS 9E

This is the second edition of a work on pharmaceutical excipients. It has been expanded and revised to include 203 monographs for pharmacopoeital and non-pharmacopoeital excipients. The appendices include a substantial suppliers' directory. All the physical properties of excipients are included.

Handbook of Pharmaceutical Excipients

A comprehensive, uniform guide to the uses, properties, and safety of pharmaceutical excipients and is an essential reference source for those involved in the development, production, control or regulation of pharmaceutical preparations. Features of this edition: Contains 210 excipient monographs; Collects together essential data of physical properties of excipients; Scanning electron photomicrographs included for many excipients; Contains information from various international sources; Also includes laboratory data determined specifically for the Handbook and personal observations; Contains information on the safe use and potential toxicity of the materials; All monographs in the Handbook are thoroughly cross-referenced and indexed so that excipients may be identified by either chemical, non-proprietary, or trade names; Written by over 120 pharmaceutical scientists expert in pharmaceutical formulation or excipient manufacture.

Handbook of Pharmaceutical Excipients

Martindale: The Complete Drug Reference provides unbiased and evaluated information on drugs and medicines in use around the world. It is prepared by an experienced team of pharmacists and life scientists who use their professional expertise to select the most clinically relevant and appropriate information from reliable published sources.

Handbook of Pharmaceutical Excipients

It is with great pleasure that we introduce the first edition of the textbook on "Pharmacy Practice". This book further elucidates and clarifies simple socially related concepts needed for pharma students to get through the first course of BP 703T. This book is a sincere attempt to concepts and vocabulary understandable to students and field experts alike. I have tried to simplify the concepts for ease of grasping even for the first year students. The text was put through great lengths to keep it error-free and convey the subject in a style that is understandable to students. However, any recommendations and helpful criticism would be much appreciated and included in a subsequent edition. At the end of the course student will be able to: 1. Hospital and its organisation 2. Hospital pharmacy 3. Drug reactions 4. Budget preparation 5. Drug store management

Martindale

This book provides an overview of excipients, their functionalities in pharmaceutical dosage forms, regulation, and selection for pharmaceutical products formulation. It includes development, characterization methodology, applications, and up-to-date advances through the perspectives of excipients developers, users, and regulatory experts. Covers the sources, characterization, and harmonization of excipients: essential information for optimal excipients selection in pharmaceutical development Describes the physico-chemical properties and biological effects of excipients Discusses chemical classes, safety and toxicity, and formulation Addresses recent efforts in the standardization and harmonization of excipients

PHARMACY PRACTICE

Humans have been experimenting with lyophilization, or freeze-drying, as a method to preserve biological structures for over a thousand years. This comprehensive volume, intended for scientists in both academia and industry, covers a wide range of topics relevant to the formulation of peptide and protein drugs in the freeze-dried state.

Pharmaceutical Excipients

CRC Handbook of Food, Drug, and Cosmetic Excipients provides a comprehensive summary of toxicological issues regarding inactive ingredients in pharmaceutical products, cosmetic products, and food additives. Background information on regulations and labeling requirements for each type of product is provided, and 77 articles critically review human and animal data pertinent to a variety of agents and makes judgments regarding the clinical relevance. The book also identifies at-risk populations, such as neonates, patients with renal failure, and atopic patients. Inactive common pharmaceutical agents and/or foods containing certain ingredients are listed to help physicians counsel hypersensitive patients who must avoid products containing these excipients.

Lyophilization of Biopharmaceuticals

The PCP's Bicentennial Edition Remington: The Science and Practice of Pharmacy, Twenty Third Edition, offers a trusted, completely updated source of information for education, training, and development of pharmacists. Published for the first time with Elsevier, this edition includes coverage of biologics and biosimilars as uses of those therapeutics have increased substantially since the previous edition. Also discussed are formulations, drug delivery (including prodrugs, salts, polymorphism. With clear, detailed color illustrations, fundamental information on a range of pharmaceutical science areas, and information on new developments in industry, pharmaceutical industry scientists, especially those involved in drug discovery and development will find this edition of Remington an essential reference. Intellectual property professionals will also find this reference helpful to cite in patents and resulting litigations. Additional graduate and postgraduate students in Pharmacy and Pharmaceutical Sciences will refer to this book in courses dealing with medicinal chemistry and pharmaceuticals. Contains a comprehensive source of principles of drug discovery and development topics, especially for scientists that are new in the pharmaceutical industry such as those with trainings/degrees in chemistry and engineering Provides a detailed source for formulation scientists and compounding pharmacists, from produg to excipient issues Updates this excellent source with the latest information to verify facts and refresh on basics for professionals in the broadly defined pharmaceutical industry

CRC Handbook of Food, Drug, and Cosmetic Excipients

New materials and manufacturing techniques are emerging with potential to address the challenges associated with the manufacture of pharmaceutical systems that will teach new tricks to old drugs. 3D printing (3DP) is a technique that can be used for the manufacturing of dosage forms, and especially targeting paediatric and geriatric formulations, as permits the fabrication of high degrees of complexity with great reproducibility, in a fast and cost-effective fashion, and offers a new paradigm for the direct manufacture of personalised dosage forms. The book is covering the basics behind each additive manufacturing (AM) method, current applications in pharmaceuticals for each 3DP method, and case studies (examples) from a teaching perspective, targeting undergraduate (UG) and postgraduate (PG) students. A unique to this book is the integration of studies based upon the use of different AM technologies, which designed to reinforce importance printing parameters and material considerations. The book includes case studies or multiple-choice questions (MCQs), which allow application of the content in a flipped-classroom.

Remington

While the safety assessment ("biocompatibility") of medical devices has been focused on issues of local tissue tolerance (irritation, sensitization, cytotoxicity) and selected quantal effects (genotoxicity and acute lethality) since first being regulated in the late 1950s, this has changed as devices assumed a much more important role in healthcare and became more complex in both composition and in their design and operation. Add to this that devices now frequently serve as delivery systems for drugs, and that drugs may be combined with devices to improve device performance, and the problems of ensuring patient safety with devices has become significantly more complex. A part of this, requirements for ensuring safety (once based on use of previously acceptable materials – largely polymers and metals) have come to requiring determining which chemical entities are potentially released from a device into patients (and how much is released). Then an appropriate and relevant (yet also conservative) risk assessment must be performed for each identified chemical structure. The challenges inherent in meeting the current requirements are multifold, and this text seeks to identify, understand, and solve all of them.

- Identify and verify the most appropriate available data.
- As in most cases such data is for a different route of exposure, transform it for use in assessing exposure by the route of interest.
- As the duration (and rate) of exposure to moieties released from a device are most frequently different (longer) than what available data speaks to, transformation across tissue is required.
- As innate and adaptive immune responses are a central part of device/patient interaction, assessing potential risks on this basis are required.
- Incorporating assessments for special populations such as neonates.
- Use of (Q)SAR (Quantitative Structure Activity Relationships) modeling in assessments.
- Performance and presentation of integrative assessments covering all potential biologic risks.

Appendices will contain summarized available biocompatibility data for commonly used device materials (polymers and metals) and safety assessments on the frequently seen moieties in extractions from devices.

3D & 4D Printing Methods for Pharmaceutical Manufacturing and Personalised Drug Delivery

Dosage Forms, Formulation Developments and Regulations, Volume One in the Recent and Future Trends in Pharmaceuticals series, explores aspects of pharmaceuticals, with an original approach focused on technology, novelties and future trends in the field. The book discusses the most recent developments in pharmaceutical preformulation and formulation studies, biopharmaceutics and novel pharmaceutical formulations, regulatory affairs, and good manufacturing practices. Exciting areas such as formulation strategies, optimization techniques, the biopharmaceutical classification system, and pharmaceutical aerosols are included. The field of pharmaceuticals is highly dynamic and rapidly expanding day-by-day, so it demands a variety of amplified efforts for designing and developing pharmaceutical processes and formulation strategies. This is an essential reference for researchers in academia and industry as well as advanced graduate students in pharmaceuticals. Examines trends and recent technologies in dosage, formulation and regulation Contains contributions from leading experts in academia, research, industry and regulatory agencies Includes high-quality illustrations, flow charts and tables for easy understanding of concepts Discusses practical examples and research case studies

Integrated Safety and Risk Assessment for Medical Devices and Combination Products

"Pharmaceutics is the art of pharmaceutical preparations. It encompasses design of drugs, their manufacture and the elimination of micro-organisms from the products. This book encompasses all of these areas."--Provided by publisher.

Pharmaceutical Excipients 2001

Pharmacists have been responsible for compounding medicines for centuries. Although most modern medicines are not compounded in a local pharmacy environment, there are still occasions when it is imperative that pharmacists have this knowledge. Pharmaceutical Compounding and Dispensing provides a comprehensive guide to producing extemporaneous formulations safely and effectively. This is a modern, detailed and practical guide to the theory and practice of extemporaneous compounding and dispensing. Fully revised and updated, this new edition will be an indispensable reference for pharmacy students and practicing pharmacists. Supplementary videos demonstrating various dispensing procedures can be viewed online at www.pharmpress.com/PCDvideos.

Dosage Forms, Formulation Developments and Regulations

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Aulton's Pharmaceuticals

Ion Channels—Advances in Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Potassium Channels. The editors have built Ion Channels—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Potassium Channels in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Ion Channels—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have

a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

BNF

The focus of early drug development has been the submission of an Investigational New Drug application to regulatory agencies. *Early Drug Development: Strategies and Routes to First-in-Human Trials* guides drug development organizations in preparing and submitting an Investigational New Drug (IND) application. By explaining the nuts and bolts of preclinical development activities and their interplay in effectively identifying successful clinical candidates, the book helps pharmaceutical scientists determine what types of discovery and preclinical research studies are needed in order to support a submission to regulatory agencies.

Pharmaceutical Compounding and Dispensing

This three-volume set of *Pharmaceutical Dosage Forms: Parenteral Medications* is an authoritative, comprehensive reference work on the formulation and manufacture of parenteral dosage forms, effectively balancing theoretical considerations with the practical aspects of their development. As such, it is recommended for scientists and engineers in the pharmaceutical industry and academia, and will also serve as an excellent reference and training tool for regulatory scientists and quality assurance professionals. First published in 1984 (as two volumes) and then last revised in 1993 (when it grew to three volumes), this latest revision will address the plethora of changes in the science and considerable advances in the technology associated with these products and routes of administration. The third edition of this book maintains the features that made the last edition so popular but comprises several brand new chapters, revisions to all other chapters, as well as high quality illustrations. Volume three presents:

- An in-depth discussion of regulatory requirements, quality assurance, risk assessment and mitigation, and extractables/leachables.
- Specific chapters on parenteral administrations devices, injection site pain assessment, and parenteral product specifications and stability testing.
- Forward-thinking discussions on the future of parenteral product manufacturing, and siRNA delivery systems.
- New chapters covering recent developments in the areas of visual inspection, quality by design (QbD), process analytical technology (PAT) and rapid microbiological methods (RMM), and validation of drug product manufacturing process.

Strengthening Forensic Science in the United States

A key text for all those involved in pharmacovigilance. Detection of new adverse drug reactions is fundamental to the protection of patients from harm that may occur as a result of medication. This book explores the methods used to investigate new adverse drug reactions, discussing all elements from the scientific background and animal toxicology through to worldwide regulatory and ethical issues. Stephens' *Detection of New Adverse Drug Reactions* provides comprehensive and up-to-date coverage of material fundamentally important to all those active in the field, whether they work in the pharmaceutical industry, drug regulatory authorities or in academia. The fifth edition of this classic reference work includes new chapters on: vaccine safety surveillance managing drug safety issues with marketed products operational aspects of drug safety function safety of biotechnology products future of pharmacovigilance

Reviews of previous editions: "This book surpasses all its educational aims. Not only is the subject matter covered comprehensively but the material is presented in a very user-friendly manner. The editors have succeeded in producing a highly-specific, definitive reference book which doubles as a most enjoyable read." —Commended by the 1999 BMA Medical Book Competition

"For anyone entering the field of adverse reaction monitoring one could not wish for a better primer" —International Journal of Risk and Safety in Medicine

Ion Channels—Advances in Research and Application: 2013 Edition

Cosmeceuticals are the latest additions to the health industry and have an ever-expanding market. They are considered to be a marriage between cosmetics and drugs and are defined as preparations applied on the body that may modify the physiological functions of the skin. However, as more cosmeceuticals are being launched in the market and more types of drugs are incorporated into the formulation, the composition of cosmeceuticals is becoming more complex. *Handbook of Cosmeceutical Excipients and their Safeties* summarises the current evidence relating to cosmeceuticals' side effects and highlights the important information that practitioners and consumers need to know, as well as ways to avoid the adverse effects of the excipients. *Handbook of Cosmeceutical Excipients and their Safeties* includes

chapters covering topics such as the history of cosmeceuticals and the laws that regulate them, skin permeation, carcinogenicity as a systemic adverse effect and dermatitis as a topical adverse effect. It concludes with an appendix that gives brief information on the potency and permeability of common ingredients in cosmeceuticals. The appendix aims to highlight the maximum allowable quantity of each ingredient to ensure product safety for consumers. The appendix was prepared by compiling the ingredients of 257 products containing more than 500 compounds, collected from a hospital pharmacy in Singapore. Focuses on the practical aspect of adverse effects from cosmeceuticals Explains the regulatory framework of cosmeceuticals Gives an idea of how excipients and drugs in cosmeceuticals enter the skin and methods of control

Early Drug Development

The conceptualization and formulation of skin care products intended for topical use is a multifaceted and evolving area of science. Formulators must account for myriad skin types, emerging opportunities for product development as well as a very temperamental retail market. Originally published as "Apply Topically" in 2013 (now out of print), this reissued detailed and comprehensive handbook offers a practical approach to the formulation chemist's day-to-day endeavors by: Addressing the innumerable challenges facing the chemist both in design and at the bench, such as formulating with/for specific properties; formulation, processing and production techniques; sensory and elegance; stability and preservation; color cosmetics; sunscreens; Offering valuable guidance to troubleshooting issues regarding ingredient selection and interaction, regulatory concerns that must be addressed early in development, and the extrapolation of preservative systems, fragrances, stability and texture aids; Exploring the advantages and limitations of raw materials; Addressing scale-up and pilot production process and concerns; Testing and Measurements Methods. The 22 chapters written by industry experts such as Roger L. McMullen, Paul Thau, Hemi Nae, Ada Polla, Howard Epstein, Joseph Albanese, Mark Chandler, Steve Herman, Gary Kelm, Patricia Aikens, and Sam Shefer, along with many others, give the reader and user the ultimate handbook on topical product development.

Third European Rheology Conference and Golden Jubilee Meeting of the British Society of Rheology

With its expansion into the global marketplace, the pharmaceutical industry of today is uniquely positioned to improve the global health standards of society by saving lives and improving the quality of lives around the world. Modern Pharmaceutical Industry: A Primer comprehensively explains the broad range of divisions in this complex industry. Experts actively involved in each division discuss their own contribution to a pharmaceutical company's work and success. Divisions include regulatory affairs, research and development, intellectual property, pricing, marketing, generics, OTC, and more

Pharmaceutical Dosage Forms - Parenteral Medications

Practical Pharmaceutics contains essential knowledge on the preparation, quality control, logistics, dispensing and use of medicines. It features chapters written by experienced pharmacists and scientists working in hospitals, academia and industry throughout Europe, including practical examples as well as information on current GMP and GMP-based guidelines and EU-legislation. In this second edition all chapters have been updated with numerous new as well as didactically revised illustrations and tables. A completely new chapter about therapeutic proteins and Advanced Therapy Medicinal Products was added. From prescription to production, from usage instructions to procurement and the impact of medicines on the environment, the book provides step-by-step coverage that will help a wide range of readers, students as well as professionals. It offers product knowledge for all pharmacists working directly with patients and it will enable them to make the required medicine available, to store medicines properly, to adapt medicines if necessary and to dispense medicines with the appropriate information for patients as well as caregivers about product care and how to maintain the quality of the product. The basic knowledge presented in the book will also be valuable for industrial pharmacists to remind and focus them on the application of the medicines manufactured. The basic and practical knowledge on the design, preparation and quality management of medicines can directly be applied by the pharmacists whose main duty is production in community and hospital pharmacies and in industry. Undergraduate as well as graduate pharmacy students will find knowledge presented in a coherent way and fully supported with relevant examples. Practical Pharmaceutics has become a reliable and recognised source for the acquisition of pharmaceutical-technological knowledge. The book is used in the curriculum of a number of international universities and schools of Pharmacy.

Stephens' Detection of New Adverse Drug Reactions

The most trusted source on the subject available today, Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems, 12th Edition equips pharmacy students with everything they need to master the intricacies of pharmaceutical dosage form design and production and achieve successful outcomes in their courses and beyond. Reflecting the latest CAPE, APhA, and NAPLEX® competencies, this trusted, extensively updated resource clarifies the interrelationships between pharmaceutical and biopharmaceutical principles, product design, formulation, manufacture, compounding, and the clinical application of the various dosage forms in patient care, as well as regulations and standards governing the manufacturing and compounding of pharmaceuticals. New and revised content throughout keeps students up to date with current approaches to key coverage areas, and additional case studies demonstrate concepts in action to reinforce understanding and prepare students for the clinical challenges ahead.

Handbook of Cosmeceutical Excipients and their Safeties

Designed for palliative care specialists, pharmacists and oncologists, this is a comprehensive compendium of essential therapeutic information. This expanded edition incorporates numerous updates and more data, bringing together important information about drugs commonly used in palliative care and about drugs for use in special circumstances by, or in conjunction with, a specialist in palliative care. It highlights drugs given for unlicensed indications or by unlicensed routes and deals comprehensively with the administration of multiple drugs by continuous subcutaneous infusion.

Handbook of Formulating Dermal Applications

The Process of New Drug Discovery and Development presents a practical methodology for maximizing the ability of a multidisciplinary research team to discover and bring new drugs to the marketplace. It includes detailed discussions regarding the research process and presents critiques of the governmental regulatory aspects of pharmaceutical research. The author also addresses the controversy surrounding the use of animals in biomedical research and provides current information regarding the field of biotechnology, international drug research, and registration activities. The Process of New Drug Discovery and Development is an excellent "how to" text for pharmaceutical researchers, oncologists, biochemists, experimental biologists, and others involved in new drug research and development.

Textbook of Organic Medicinal and Pharmaceutical Chemistry

For over 100 years, Remington has been the definitive textbook and reference on the science and practice of pharmacy. This Twenty-First Edition keeps pace with recent changes in the pharmacy curriculum and professional pharmacy practice. More than 95 new contributors and 5 new section editors provide fresh perspectives on the field. New chapters include pharmacogenomics, application of ethical principles to practice dilemmas, technology and automation, professional communication, medication errors, re-engineering pharmacy practice, management of special risk medicines, specialization in pharmacy practice, disease state management, emergency patient care, and wound care. Purchasers of this textbook are entitled to a new, fully indexed Bonus CD-ROM, affording instant access to the full content of Remington in a convenient and portable format.

Modern Pharmaceutical Industry

Theoretical discussions covering granulation and engineering perspectives. Covers new advances in expert systems, process modelling and bioavailability Chapters on emerging technologies in particle engineering Updated Current research and developments in granulation technologies

Practical Pharmaceutics

The pharmaceutical industry exists to serve the community, but over the years it has engaged massively in corporate crime, with the public footing the bill. This readable study by experts in medicine, law, criminology and public health documents the pr

Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems

Martin's Physical Pharmacy and Pharmaceutical Sciences is considered the most comprehensive text available on the application of the physical, chemical and biological principles in the pharmaceutical

sciences. It helps students, teachers, researchers, and industrial pharmaceutical scientists use elements of biology, physics, and chemistry in their work and study. Since the first edition was published in 1960, the text has been and continues to be a required text for the core courses of Pharmaceutics, Drug Delivery, and Physical Pharmacy. The Sixth Edition features expanded content on drug delivery, solid oral dosage forms, pharmaceutical polymers and pharmaceutical biotechnology, and updated sections to cover advances in nanotechnology.

Palliative Care Formulary

No other area of regulatory compliance receives more attention and scrutiny by regulatory authorities than the regulation of sterile products, for obvious reasons. With the increasing number of potent products, particularly the new line of small protein products, joining the long list of proven sterile products, the technology of manufacturing ster

The Process of New Drug Discovery and Development

In the view of most experts pharmacology is on drugs, targets, and actions. In the context the drug as a rule is seen as an active pharmaceutical ingredient and not as a complex mixture of chemical entities of a well defined structure. Today, we are becoming more and more aware of the fact that delivery of the active compound to the target site is a key. The present volume gives a topical overview on various modern approaches to drug targeting covering today's options for specific carrier systems allowing successful drug treatment at various sites of the body difficult to address and allowing to increase the benefit-risk-ratio to the optimum possible.

Remington

This book is a printed edition of the Special Issue "Advances in Marine Chitin and Chitosan" that was published in Marine Drugs

Handbook of Pharmaceutical Granulation Technology

Pharmaceuticals, Corporate Crime and Public Health