Handbook of Pharmaceutical Excipients

Describes the chemical and physical properties of pharmaceutical excipients. Each monograph contains nonproprietary names, synonyms, chemical name and CAS registry number, empirical formula and molecular weight, structural formula, functional category, applications in pharmaceutical formulation or technology, description, pharmacopeial specifications, typical properties, stability and storage conditions, incompatibilities, method of manufacture, safety, handling precautions, regulatory status, pharmacopeias, related substances, comments, specific references, general references, and authors.

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.

This handbook features contributions from a team of expert authors representing the many disciplines within science, engineering, and technology that are involved in pharmaceutical manufacturing. They provide the information and tools you need to design, implement, operate, and troubleshoot a pharmaceutical manufacturing system. The editor, with more than thirty years' experience working with pharmaceutical and biotechnology companies, carefully reviewed all the chapters to ensure that each one is thorough, accurate, and clear.

A report on progress in the development of materials used in or on the human body, ranging from biopolymers used in controlled-release drug delivery systems and prosthetic devices to metals used in bone repair and plastics used in absorbable mechanisms such as sutures.

This fully revised edition of Handbook of Pharmaceutical Granulation Technology covers the rapid
advances in the science of agglomeration, process control, process modelling, scale-up, emerging particle engineering technologies, along with current regulatory changes presented by some of the prominent scientist and subject matter experts around the globe. Learn from more than 50 global subject matter experts who share their years of experience in areas ranging from drug delivery and pharmaceutical technology to advances in nanotechnology. Every pharmaceutical scientist should own a copy of this fourth edition resource. Key Features: 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

To facilitate the development of novel drug delivery systems and biotechnology-oriented drugs, the need for new excipients to be developed and approved continues to increase. Excipient Development for Pharmaceutical, Biotechnology, and Drug Delivery Systems serves as a comprehensive source to improve understanding of excipients and forge new avenue

The Handbook of Pharmaceutical Excipients is a comprehensive guide to the uses, properties and safety of pharmaceutical excipients and is an essential reference for those involved in the development, production, control or regulation of pharmaceutical preparations; The handbook collects together essential data on the physical properties of excipients as well as providing information on their safe use and potential toxicity. All monographs are also thoroughly cross-referenced and indexed to allow their identification by chemical, non-proprietary or trade names

In recent years, emerging trends in the design and development of drug products have indicated ever greater need for integrated characterization of excipients and in-depth understanding of their roles in drug delivery applications. This book presents a concise summary of relevant scientific and mechanistic information that can aid the use of excipients in formulation design and drug delivery applications. Each chapter is contributed by chosen experts in their respective fields, which affords truly in-depth perspective into a spectrum of excipient-focused topics. This book captures current subjects of interest – with the most up to date research updates – in the field of pharmaceutical excipients. This includes areas of interest to the biopharmaceutical industry users, students, educators, excipient manufacturers, and regulatory bodies alike.

This manual and reference work provides a source of analytical data for drugs and related substances. It is aimed at scientists faced with the problem of identifying a drug in a pharmaceutical product, in a sample of tissue or body fluid, from a living patient or in post-mortem material.

This text is a comprehensive guide to law and ethics for pharmacy practice in the UK. Since publication of the first edition in 1976, it has become established as the standard student textbook and reference work on this subject in the UK. It includes information on the law that affects the practice of pharmacy in the UK, complete coverage of the pharmacy undergraduate and pre-registration syllabus and British law relating to medicines and poisons. This tenth edition has been substantially updated in connection with the advent of the GPhC and the new PLB, and revision of the Medicines Act.

The third volume in the six-volume Handbook of Pharmaceutical Manufacturing Formulations, this book covers liquid drugs, which include formulations of non-sterile drugs administered by any route in the form of solutions (monomeric and multimeric), suspensions (powder and liquid), drops, extracts, elixirs, tinctures, paints, sprays, colloidons, emul

With over 400 drug monographs, this book covers the technical, practical and legal aspects that you should consider before prescribing or administering drugs via enteral feeding tubes.

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. New
monographs in this edition are: acesulfame potassium; albumin; alpha tocopherol; ascorbyl palmitate; aspartame; benzethonium chloride; bronopol; croscarmellose sodium; crosovidone; cyclodextrins; dextrates; fructose; glyceryl palmitostearate; imidurea; maltodextrin; maltol; medium chain triglycerides; menthol; nitrogen; phenol; propyl gallate; sodium cyclamate; sodium stearyl fumarate; soybean oil; sugar spheres; tartaric acid; tetrafluoroethane; vanillin; hydrogenated vegetable oil; xanthan gum.

Developing Solid Oral Dosage Forms is intended for pharmaceutical professionals engaged in research and development of oral dosage forms. It covers essential principles of physical pharmacy, biopharmaceutics and industrial pharmacy as well as various aspects of state-of-the-art techniques and approaches in pharmaceutical sciences and technologies along with examples and/or case studies in product development. The objective of this book is to offer updated (or current) knowledge and skills required for rational oral product design and development. The specific goals are to provide readers with: Basics of modern theories of physical pharmacy, biopharmaceutics and industrial pharmacy and their applications throughout the entire process of research and development of oral dosage forms Tools and approaches of preformulation investigation, formulation/process design, characterization and scale-up in pharmaceutical sciences and technologies New developments, challenges, trends, opportunities, intellectual property issues and regulations in solid product development The first book (ever) that provides comprehensive and in-depth coverage of what’s required for developing high quality pharmaceutical products to meet international standards It covers a broad scope of topics that encompass the entire spectrum of solid dosage form development for the global market, including the most updated science and technologies, practice, applications, regulation, intellectual property protection and new development trends with case studies in every chapter A strong team of more than 50 well-established authors/co-authors of diverse background, knowledge, skills and experience from industry, academia and regulatory agencies

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

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

Provides data on the additives used to convert pharmacologically active compounds into dosage forms suitable for administration to patients. Data includes: nonproprietary names, functional category, synonyms, chemical names and CAS Registry number, empirical formula, molecular weight, structural formula, commercial availability, method of manufacture, description, pharmacopeial specifications, typical properties, stability and storage conditions, incompatibilities, safety, handling precautions, regulatory acceptance, applications in pharmaceutical formulation or technology, use, related substances, comments, and specific references.
This is thirty-fifth edition of Martindale, which provides reliable, and evaluated information on drugs and medicines used throughout the world. It contains encyclopaedic facts about drugs and medicines, with: 5,500 drug monographs; 128,000 preparations; 40,700 reference citations; 10,900 manufacturers. There are synopses of disease treatments which enables identification of medicines, the local equivalent and the manufacturer. It also Includes herbals, diagnostic agents, radiopharmaceuticals, pharmaceutical excipients, toxins, and poisons as well as drugs and medicines. Based on published information and extensively referenced

Commonly known as the Orange Guide, this book remains an essential reference for all manufacturers and distributors of medicines in Europe. It provides a single authoritative source of European and UK guidance, information and legislation relating to the manufacture and distribution of human medicines.

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.

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.

Describes tradename products and generic chemicals and materials, available from worldwide manufacturers, that function as pharmaceutical additives. Entires include chemical description, uses, regulatory, properties, and storage.

The Handbook of Pharmaceutical Excipients contains essential data on the physical properties of excipients, their safe use and potential toxicity.

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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
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. The book covers three core sections: the history of compounding; pharmaceutical forms and their preparation; product formulae. 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.

The purpose of this handbook is to assist individuals for the Certified Pharmaceutical Good Manufacturing Practices Professional (CPGP) examination and provide a reference for the practitioner. The second edition reflects the Body of Knowledge which was updated in 2015. This edition has also incorporated additional information including updated references. The updates reflect the current trends and expectations of the evolving pharmaceutical industry driven by consumer expectations and regulatory oversight. This handbook covers compliance with good manufacturing practices (GMPs), as regulated and guided by national and international agencies for the pharmaceutical industry. It covers finished human and veterinary drugs and biologics, and combination devices, as well as their component raw materials (including active pharmaceutical ingredients (APIs) and excipients), and packaging and labeling operations.

The Third Edition presents all pharmaceutical industry personnel and those in academia with critical updates on the recent advances in granulation technology and changes in FDA regulatory guidelines. Addressing precisely how these recent innovations and revisions affect unit operation of particle generation and granulation, this text assists the reader.

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This book reviews the history, regulatory status, pharmacopeial specifications, and harmonization of pharmaceutical excipients in the United States and Europe, and provides a comprehensive understanding of the current scientific basis for safety evaluation and risk assessment. Examines excipients as a unique class of products and explores new procedures for determining toxicity! A timely and unique addition to the pharmaceutical literature, containing over 570 citations that support and enhance the text, Excipient Toxicity and Safety identifies the differences between excipients (inactive ingredients), food ingredients, and drug products evaluates issues of dose administration, species selection, and study design for various routes of exposure provides detailed information on the historical uses of excipients in drug formulations clarifies the Safety Committee of the International Pharmaceutical Excipients Council's (IPEC) guidelines and technical specifications for conducting tests for each route of exposure explains how data generated in toxicity models are applied to identify hazards in drug formulations details exposure assessment to link hazard identification with risk considers the requirements and importance of purity specifications and much more! Excipient Toxicity and Safety is a blue-ribbon reference ideal for pharmacists; toxicologists; pharmacologists; analytical chemists; quality control, quality assurance, and regulatory compliance managers; and upper-level undergraduate and graduate students in these disciplines.

Handbook of Pharmaceutical Wet Granulation: Theory and Practice in a Quality by Design Paradigm offers a single and comprehensive reference dedicated to all aspects of pharmaceutical wet granulation, taking a holistic approach by combining introductory principles with practical solutions. Chapters are written by international experts across industry, academic and regulatory settings, and cover a wide spectrum of relevant and contemporary wet granulation topics, techniques and
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processes. The books' focus on process analytical technology, quality by design principles, granulation equipment, modeling, scale-up, control and real time release makes it a timely and valuable resource for all those involved in pharmaceutical wet granulation. Discusses fundamentals of theory and current industrial practice in the field of wet granulation, including product and process design and role of material properties in wet granulation. Examines the modern evolution of wet granulation through current topics such as established and novel process analytical technologies (PATs), and product development and scale-up paradigms. Written for scientists working within the pharmaceutical industry, as well as academics, regulatory officials and equipment vendors who provide PAT tools and granulation equipment.

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.

The book describes the properties, analytical methods and the applications of different polyvinylpyrrolidone excipients (povidone, crospovidone, copovidone etc.) for use in pharmaceutical preparations. This group of excipients is one of the most important excipients used in modern technology to produce drugs. The book is intended for all persons working in the research, development and quality control of drugs. It gives a survey of all applications in solid, liquid and semisolid dosage forms including many drug formulation examples and more than 600 references to the literature.

Describes the chemical and physical properties of pharmaceutical excipients. Each monograph contains nonproprietary names, synonyms, chemical name and CAS registry number, empirical formula and molecular weight, structural formula, functional category, applications in pharmaceutical formulation or technology, description, pharmacopeial specifications, typical properties, stability and storage conditions, incompatibilities, method of manufacture, safety, handling precautions, regulatory status, pharmacopeias, related substances, comments, specific references, general references, and authors.

Featuring methodology, applications, and up-to-date advances through the perspectives of developers, users, and regulatory personnel, Pharmaceutical Excipients provides an overview of excipients, functionalities of excipients in pharmaceutical dosage forms, case studies, and how their selection can influence pharmaceutical products manufacture. Including up-to-date advancements of their use in the field, this valuable resource for scientists, researchers, and chemical engineers compiles ten detailed chapters that encompass the overview, applications, and most current research.

The fourth volume in the series covers the techniques and technologies involved in the preparation of semisolid products such as ointments, creams, gels, suppositories, and special topical dosage forms. Drug manufacturers need a thorough understanding of the specific requirements that regulatory agencies impose on the formulation and efficacy deter