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Hot-Melt Extrusion Jun 10 2021 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.

Encyclopedia of Pharmaceutical Technology Mar 19 2022 The Encyclopedia of Pharmaceutical Technology presents authoritative and contemporary articles on all aspects of drug development, dosage forms, manufacturing, and regulation-enabling the specialist and novice alike to keep abreast of developments in this rapidly evolving and highly competitive field. A dependable reference tool and a solid investment for years to come-maintaining currency through its supplements [Volume 18/Supplement 1: Published November, 1998] The Encyclopedia contains interdisciplinary contributions in a wide array of subjects, including Drugs decomposition metabolism pharmaceutical incompatibilities pharmacokinetics physicochemical properties preformulation stability Drug Delivery Systems and Devices-Development and Manufacture analysis and controls bioavailability use of computerization formulation and processing alternatives national and international registration packaging patents process validation scale-up safety and efficacy stability standards Post-Production and Practical Considerations governmental/industrial/professional organizations legal aspects national and international agencies patent life of drugs patient compliance ...and much, much more!

Encyclopedia of Pharmaceutical Technology: Pha-pre Mar 07 2021

Pharmaceutical Formulation Oct 02 2020 Formulation is a key step in the drug design process, where the active drug is combined with other substances that maximise the therapeutic potential, safety and stability of the final medicinal product. Modern formulation science deals with biologics as well as small molecules. Regulatory and quality demands, in addition to advances in processing technologies, result in growing challenges as well as possibilities for the field. Pharmaceutical Formulation provides an up to date source of information for all who wish to understand the principles and practice of formulation in the drug industry. The book provides an understanding of the links between formulation theory and the practicalities of processing in a commercial environment, giving researchers the knowledge to produce effective pharmaceutical products that can be approved and manufactured. The first chapters introduce readers to different dosage forms, including oral liquid products, topical products and solid dosage forms such as tablets and capsules. Subsequent chapters cover pharmaceutical coatings, controlled release drug delivery and dosage forms designed specifically for paediatric and geriatric patients. The final chapter provides an introduction to the vital role intellectual property plays in drug development. Covering modern processing methods and recent changes in the regulatory and quality demands of the industry, Pharmaceutical Formulation is an essential, up to date resource for students and researchers working in academia and in the pharmaceutical industry.

Pharmaceutical Technology: Concepts and applications Oct 26 2022 Pharmaceutical Technology – Concepts and Applications articulates on the various pharmaco-technological concepts associated with industrial pharmacy. The book not only focuses on providing comprehensive information on formulation development and affiliated areas but also emphasizes on their industrial applications. With a plethora of examples that illustrate important concepts, the book equips students of pharmacy to rise to the requirements of the industry.

Nanotechnology Applied To Pharmaceutical Technology Jul 23 2022 Focusing on the application of nanotechnology in pharmaceutical technology the editors seek to integrate the two in order to obtain innovative products and solutions in pharmacology. Interdisciplinary in content it is of interest to those who are involved in the development of nanoproducts including nanotechnologists, microbiologists, biotechnologists pharmacologists and clinicians. Recent studies are presented that include the biosynthesis of nanoparticles focusing on antimicrobials; nanomaterial-based formulations that treat cancer, infections, skin disorders and wounds;nanomaterials in eye diseases and toxicity and safety issues. It demonstrates the crucial role this plays in tackling multi-drug resistant threats.

Advances and Challenges in Pharmaceutical Technology Jan 29 2023 Advances and Challenges in Pharmaceutical Technology: Materials, Process Development and Drug Delivery Strategies examines recent advancements in pharmaceutical technology. The book discusses common formulation strategies, including the use of tools for statistical formulation optimization, Quality by design (QbD), process analytical technology, and the uses of various pharmaceutical biomaterials, including natural polymers, synthetic polymers, modified natural polymers, bioceramics, and other bioinorganics. In addition, the book covers rapid advancements in the field by providing a thorough understanding of pharmaceutical processes, formulation developments, explorations, and exploitation of various pharmaceutical biomaterials to formulate pharmaceutical dosage forms. Provides extensive information and analysis on recent advancements in the field of pharmaceutical technology Includes contributions from global leaders and experts in academia, industry and regulatory agencies Uses high quality illustrations, flow charts and tables to explain concepts and text to readers, along with practical examples and research case studies

Handbook of Pharmaceutical Technology Feb 18 2022

An Introduction to Pharmaceutical Sciences May 29 2020 This textbook is written as a unified approach to various topics, ranging from drug discovery to manufacturing, techniques and technology, regulation and marketing. The key theme of the book is pharmaceuticals - what every student of pharmaceutical sciences should know: from the active pharmaceutical ingredients to the preparation of various dosage forms along with the relevant chemistry, this book makes pharmaceuticals relevant to undergraduate students of pharmacy and pharmaceutical sciences. This book explains how a particular drug was discovered and then converted from lab-scale to manufacturing scale, to the market. It explains the motivation for drug discovery, the reaction chemistry involved, experimental difficulties, various dosage forms and the reasoning behind them, mechanism of action, quality assurance and role of regulatory agencies. After having a course based on this book, the student will be able to understand: 1) the career prospects in the pharmaceutical industry, 2) the need for interdisciplinary teamwork in science, 3) the techniques and technology involved in making pharmaceuticals starting from bulk drugs, and 4) different dosage forms and critical factors in the development of pharmaceutical formulations in relation to the principles of chemistry. A few blockbuster drugs including atorvastatin, sildanefil, ranitidine, ciprofloxacin, amoxicillin, and the longest

serving drugs such as aspirin and paracetamol are discussed in detail. Finally, the book also covers the important current pharmaceutical issues like quality control, safety, counterfeiting and abuse of drugs, and future prospects for pharmaceutical industry.
Special Issue, Sixth Pharmaceutical Technology Conference Apr 27 2020
Corporate capabilities Oct 22 2019
An Introduction to Pharmaceutical Sciences Sep 13 2021 This textbook is written as a unified approach to various topics, ranging from drug discovery to manufacturing, techniques and technology, regulation and marketing. The key theme of the book is pharmaceuticals - what every student of pharmaceutical sciences should know: from the active pharmaceutical ingredients to the preparation of various dosage forms along with the relevant chemistry, this book makes pharmaceuticals relevant to undergraduate students of pharmacy and pharmaceutical sciences. This book explains how a particular drug was discovered and then converted from lab-scale to manufacturing scale, to the market. It explains the motivation for drug discovery, the reaction chemistry involved, experimental difficulties, various dosage forms and the reasoning behind them, mechanism of action, quality assurance and role of regulatory agencies. After having a course based on this book, the student will be able to understand: 1) the career prospects in the pharmaceutical industry, 2) the need for interdisciplinary teamwork in science, 3) the techniques and technology involved in making pharmaceuticals starting from bulk drugs, and 4) different dosage forms and critical factors in the development of pharmaceutical formulations in relation to the principles of chemistry. A few blockbuster drugs including atorvastatin, sildanefil, ranitidine, ciprofloxacin, amoxicillin, and the longest serving drugs such as aspirin and paracetamol are discussed in detail. Finally, the book also covers the important current pharmaceutical issues like quality control, safety, counterfeiting and abuse of drugs, and future prospects for pharmaceutical industry. Unified approach explaining drug discovery, bulk drug manufacturing, formulation of dosage forms, with pharmacological and therapeutic actions Manufacturing processes of representative active pharmaceutical ingredients and their chemistry plus formulation of dosage forms presented in this book are based on actual industrial processes Covers many aspects relevant to students of the pharmaceutical sciences or newly employed pharmaceutical researchers/employees. It contains summary information about regulatory agencies of different countries
Drug Delivery Strategies for Poorly Water-Soluble Drugs Jan 25 2020 Many newly proposed drugs suffer from poor water solubility,thus presenting major hurdles in the design of suitableformulations for administration to patients. Consequently, thedevelopment of techniques and materials to overcome these hurdles is a major areaof research in pharmaceutical companies. Drug Delivery Strategies for Poorly Water-Soluble Drugs providesa comprehensive overview of currently used formulation strategiesfor hydrophobic drugs, including liposome formulation, cyclodextrindrug carriers, solid lipid nanoparticles, polymeric drugencapsulation delivery systems, self–microemulsifying drugdelivery systems, nanocrystals, hydrosol colloidal dispersions,microemulsions, solid dispersions, cosolvent use, dendrimers,polymer- drug conjugates, polymeric micelles, and mesoporous silicananoparticles. For each approach the book discusses the maininstrumentation, operation principles and theoretical background,with a focus on critical formulation features and clinical studies. Finally, the bookincludes some recent and novel applications, scale-upconsiderations and regulatory issues. Drug Delivery Strategies for Poorly Water-Soluble Drugs is anessential multidisciplinary guide to this important area of drugformulation for researchers in industry and academia working indrug delivery, polymers and biomaterials.
Computer-Aided Applications in Pharmaceutical Technology Nov 15 2021 Research and development in the pharmaceutical industry is a time-consuming and expensive process, making it difficult for newly developed drugs to be formulated into commercially available products. Both formulation and process development can be optimized by means of statistically organized experiments, artificial intelligence and other computational methods. Simultaneous development and investigation of pharmaceutical products and processes enables application of quality by design concept that is being promoted by the regulatory authorities worldwide. Computer-Aided Applications in Pharmaceutical Technology covers the fundamentals of experimental design application and interpretation in pharmaceutical technology, chemometric methods with emphasis of their application in process control, neural computing (artificial neural networks, fuzzy logic and decision trees, evolutionary computing and genetic algorithms, self-organizing maps), computer-aided biopharmaceutical characterization as well as application of computational fluid dynamics in pharmaceutical technology. All of these techniques are essential tools for successful building of quality into pharmaceutical products and processes from the early stage of their development to selection of the optimal ones. In addition to theoretical aspects of various methods, the book provides numerous examples of their application in the field of pharmaceutical technology.
Encyclopedia of Pharmaceutical Technology Dec 28 2022 Presenting authoritative and engaging articles on all aspects of drug development, dosage, manufacturing, and regulation, this Third Edition enables the pharmaceutical specialist and novice alike to keep abreast of developments in this rapidly evolving and highly competitive field. A dependable reference tool and constant companion for years to come, the Third Edition will offer completely new entries that cover critical issues in the field such as the impact of genomics, biotechnology, and implants on drug discovery, targeting, delivery, and formulation. In addition, it will address new regulatory issues, such as the changes in advertising regulations, and emerging FDA procedures.
Continuous Manufacturing of Pharmaceuticals Dec 16 2021 A comprehensive look at existing technologies and processes for continuous manufacturing of pharmaceuticals As rising costs outpace new drug development, the pharmaceutical industry has come under intense pressure to improve the efficiency of its manufacturing processes. Continuous process manufacturing provides a proven solution. Among its many benefits are: minimized waste, energy consumption, and raw material use; the accelerated introduction of new drugs; the use of smaller production facilities with lower building and capital costs; the ability to monitor drug quality on a continuous basis; and enhanced process reliability and flexibility. Continuous Manufacturing of Pharmaceuticals prepares professionals to take advantage of that exciting new approach to improving drug manufacturing efficiency. This book covers key aspects of the continuous manufacturing of pharmaceuticals. The first part provides an overview of key chemical engineering principles and the current regulatory environment. The second covers existing technologies for manufacturing both small-molecule-based products and protein/peptide products. The following section is devoted to process analytical tools for continuously operating manufacturing environments. The final two sections treat the integration of several individual parts of processing into fully operating continuous process systems and summarize state-of-art approaches for innovative new manufacturing principles. Brings together the essential know-how for anyone working in drug manufacturing, as well as chemical, food, and pharmaceutical scientists working on continuous processing Covers chemical engineering principles, regulatory aspects, primary and secondary manufacturing, process analytical technology and quality-by-design Contains contributions from researchers in leading pharmaceutical companies, the FDA, and academic institutions Offers an extremely well-informed look at the most promising future approaches to continuous manufacturing of innovative pharmaceutical products Timely, comprehensive, and authoritative, Continuous Manufacturing of Pharmaceuticals is an important professional resource for researchers in industry and academe working in the fields of pharmaceuticals development and manufacturing.
Encyclopedia of Pharmaceutical Science and Technology, Fourth Edition, Six Volume Set (Print) Oct 14 2021 Pharmaceutical science deals with the whole spectrum of drug development from start to finish. There are many different facets to the pharmaceutical industry, from initial research to the finished product, including the equipment used, trials performed, and regulations that must be followed. Presenting an overview of all of these different aspects, the Encyclopedia of Pharmaceutical Science and Technology, Fourth Edition is a must-have reference guide for all laboratories and libraries in the pharmaceutical field. Bringing together leaders from every specialty related to pharmaceutical science and technology, this is the single-source reference at the forefront of pharmaceutical R&D. The strength of this work is not only its breadth but also the caliber of contributing writers, all experts in their field, writing on all aspects of pharmaceutical science and technology. The fourth edition offers 29 new chapters ranging from biomarkers, computational chemistry, and contamination control to high-throughput screening, orally disintegrating tablets, and quality by design. The encyclopedia details best practices of equipment used, methods for manufacturing, options for packaging, and routes for drug delivery. The volumes also provide a thorough understanding of the choices behind each method. In addition, the regulations, safety aspects, patent guidance, and methods of analysis are presented. Key Areas Covered: Analytics Biomarkers Dosage forms Drug delivery Formulation

Informatics Manufacturing Packaging Processing Regulatory affairs Systems validation This is an authoritative reference source for those practicing in any area of pharmaceutical science and technology, enabling the pharmaceutical specialist and novice alike to keep abreast of developments in this constantly evolving and highly competitive field. * Online version coming soon. Contact us to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367 / (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062 / (E-mail) online.sales@tandf.co.uk

Voigt's Pharmaceutical Technology Apr 20 2022 A textbook which is both comprehensive and comprehensible and that offers easy but scientifically sound reading to both students and professionals Now in its 12th edition in its native German, Voigt's Pharmaceutical Technology is an interdisciplinary textbook covering the fundamental principles of pharmaceutical technology. Available for the first time in English, this edition is produced in full colour throughout, with a concise, clear structure developed after consultation with students, instructors and researchers. This book: Features clear chapter layouts and easily digestible content Presents novel trends, devices and processes Discusses classical and modern manufacturing processes Covers all formulation principles including tablets, ointments, capsules, nanosystems and biopharmaceutics Takes account of legal requirements for both qualitative and quantitative composition Addresses quality assurance considerations Uniquely relates contrasting international pharmacopeia from EU, US and Japan to formulation principles Includes examples and text boxes for quicker data assimilation Written for both students studying pharmacy and industry professionals in the field as well as toxicologists, biochemists, medical lab technicians, Voigt’s Pharmaceutical Technology is the essential resource for understanding the various aspects of pharmaceutical technology.

Current Research in Pharmaceutical Technology Mar 02 2023 Pharmaceutical technology deals with the discovery, production, processing, and safe and effective delivery of medications to patients. Technologies involved include computer modeling for research, bioengineering for research instrumentation, processes and methods for increasing production, and computing technology and biosystematics for the management and analysis of data. This new book covers a wide range of important topics on today’s pharmaceutical technology, such as in vitro drug release and controlled drug delivery, the use of nanotechnology in pharmaceuticals, quantum dot imaging, assessment and efficacy of pharmaceuticals, and much more.

Essentials of Pharmaceutical Technology May 21 2022 Delivering the active medicament to the body system for a certain therapeutic action is the central idea of Pharmaceutical technology. A Pharmaceutical drug is delivered through various routes of administration with the help of various kinds of dosage forms. Moreover a drug product should be effective, safe and stable. All the aspects of pharmaceutical texts, dealing with drug delivery basically target these three issues The book covers -Basics of dissolution study, bioavailability and stability studies (and ICH guidelines) in detail with recent guidelines -Most common and popular dosage forms viz. tablet, capsule, parenterals, suspension and emulsion have been discussed Other topics discussed include controlled release products, oral protein delivery etc -USPs of the book are easy language, to the point coverage of topics, pictorial/graphical, tabular presentation and a glossary of official definitions of all important key words of Pharmaceutics. We hope that this book shall be very useful to students as well as teachers as ready source of basics of each and every covered topic.

Encyclopedia of Pharmaceutical Technology May 09 2021 The Encyclopedia of Pharmaceutical Technology presents authoritative and contemporary articles on all aspects of drug development, dosage forms, manufacturing, and regulation-enabling the specialist and novice alike to keep abreast of developments in this rapidly evolving and highly competitive field. A dependable reference tool and a solid investment for years to come--maintaining currency through its supplements [Volume 18/Supplement 1: Published November, 1998] The Encyclopedia contains interdisciplinary contributions in a wide array of subjects, including Drugs decomposition metabolism pharmaceutical incompatibilities pharmacokinetics physicochemical properties preformulation stability Drug Delivery Systems and Devices-Development and Manufacture analysis and controls bioavailability use of computerization formulation and processing alternatives national and international registration packaging patents process validation scale-up safety and efficacy stability standards Post-Production and Practical Considerations governmental/industrial/professional organizations legal aspects national and international agencies patent life of drugs patient compliance ...and much, much more!

Aulton's Pharmaceutics Jul 31 2020 "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.

Bioavailability and Bioequivalance in Pharmaceutical Technology Apr 08 2021 Proceedings of the Seminar-cum-Workshop on Bioavailability and Bioequivalence.

Pharmaceutical Packaging Technology Feb 06 2021 Pharmaceutical packaging requires a greater knowledge of materials and a greater intensity of testing than most other packed products, not to mention a sound knowledge of pharmaceutical products and an understanding of regulatory requirements. Structured to meet the needs of the global market, this volume provides an assessment of a wide range of issues. It covers the entire supply chain from conversion of raw materials into packaging materials and then assembled into product packs. Integrating information from many drug delivery systems, the author discusses testing and evaluation and emphasizes traceability and the need to for additional safeguards.

Elsevier's Dictionary of Pharmaceutical Science and Techniques Dec 04 2020 CD-ROM version. This first volume of the Dictionary of Pharmaceutical Science and Techniques covers terms used in pharmaceutical technology both in its applications in pharmacy proper and in the pharmaceutical industry.In view of the diversity of methods used in the manufacture and testing of drugs and the great variety of fields from which these methods originate also some general terms relating to physics, engineering and technology are included. Commercial terminology has also been added where it has direct bearing on the subject.

Encyclopedia of Pharmaceutical Technology Jun 22 2022 The Encyclopedia of Pharmaceutical Technology presents authoritative and contemporary articles on all aspects of drug development, dosage forms, manufacturing, and regulation-enabling the specialist and novice alike to keep abreast of developments in this rapidly evolving and highly competitive field. A dependable reference tool and a solid investment for years to come-maintaining currency through its supplements [Volume 18/Supplement 1: Published November, 1998] The Encyclopedia contains interdisciplinary contributions in a wide array of subjects, including Drugs decomposition metabolism pharmaceutical incompatibilities pharmacokinetics physicochemical properties preformulation stability Drug Delivery Systems and Devices-Development and Manufacture analysis and controls bioavailability use of computerization formulation and processing alternatives national and international registration packaging patents process validation scale-up safety and efficacy stability standards Post-Production and Practical Considerations governmental/industrial/professional organizations legal aspects national and international agencies patent life of drugs patient compliance ...and much, much more!

Encyclopedia of Pharmaceutical Technology: Thermal analysis of drugs and drug products to unit processes in pharmacy: fundamentals Nov 03 2020

Practicals in Pharmaceutical Technology - Prescription Pharmacy Jan 05 2021

Voigt's Pharmaceutical Technology Sep 25 2022 A textbook which is both comprehensive and comprehensible and that offers easy but scientifically sound reading to both students and professionals Now in its 12th edition in its native German, Voigt's Pharmaceutical Technology is an interdisciplinary textbook covering the fundamental principles of pharmaceutical technology. Available for the first time in English, this edition is produced in full colour throughout, with a concise, clear structure developed after consultation with students, instructors and researchers. This book: Features clear chapter layouts and easily digestible content Presents novel trends, devices and processes Discusses classical and modern manufacturing processes Covers all formulation principles including tablets, ointments, capsules, nanosystems and biopharmaceutics Takes account of legal requirements for both qualitative and quantitative composition Addresses quality assurance considerations Uniquely relates contrasting international pharmacopeia from EU, US and Japan to formulation principles Includes examples and text boxes for quicker data assimilation Written for both students studying pharmacy and industry professionals in the field as well as toxicologists, biochemists, medical lab technicians, Voigt’s Pharmaceutical Technology is the essential resource for understanding the various aspects of pharmaceutical technology.

Computer-Aided Applications in Pharmaceutical Technology Jan 17 2022 Research and development in the pharmaceutical industry is a time-consuming and expensive process, making it difficult for newly developed drugs to be formulated into commercially available products. Both

formulation and process development can be optimized by means of statistically organized experiments, artificial intelligence and other computational methods. Simultaneous development and investigation of pharmaceutical products and processes enables application of quality by design concept that is being promoted by the regulatory authorities worldwide. Computer-aided applications in pharmaceutical technology covers the fundamentals of experimental design application and interpretation in pharmaceutical technology, chemometric methods with emphasis of their application in process control, neural computing (artificial neural networks, fuzzy logic and decision trees, evolutionary computing and genetic algorithms, self-organizing maps), computer-aided biopharmaceutical characterization as well as application of computational fluid dynamics in pharmaceutical technology. All of these techniques are essential tools for successful building of quality into pharmaceutical products and processes from the early stage of their development to selection of the optimal ones. In addition to theoretical aspects of various methods, the book provides numerous examples of their application in the field of pharmaceutical technology. A comprehensive review of the current state of the art on various computer aided applications in pharmaceutical technology Case studies are presented in order to facilitate understanding of various concepts in computer-aided applications

Course Notes Nov 22 2019

4. Pharmaceutical Technology Conference, Edinburgh, 1984 Feb 24 2020

Handbook of Polymers for Pharmaceutical Technologies, Processing and Applications Mar 27 2020 Polymers are one of the most fascinating materials of the present era finding their applications in almost every aspects of life. Polymers are either directly available in nature or are chemically synthesized and used depending upon the targeted applications.Advances in polymer science and the introduction of new polymers have resulted in the significant development of polymers with unique properties. Different kinds of polymers have been and will be one of the key in several applications in many of the advanced pharmaceutical research being carried out over the globe. This 4-partset of books contains precisely referenced chapters, emphasizing different kinds of polymers with basic fundamentals and practicality for application in diverse pharmaceutical technologies. The volumes aim at explaining basics of polymers based materials from different resources and their chemistry along with practical applications which present a future direction in the pharmaceutical industry. Each volume offer deep insight into the subject being treated. Volume 1: Structure and Chemistry Volume 2: Processing and Applications Volume 3: Biodegradable Polymers Volume 4: Bioactive and Compatible Synthetic/Hybrid Polymers

Pharmaceutical Technology Transfer Aug 24 2022 Successful Technology transfer enables the production of new dosage form so it is important to remove the barriers to the free flow of technology as well as to the free flow of science. This book addresses the various concepts and recommendations on the activities necessary to conduct a successful transfer of technology guidelines. The intention is to describe the basic considerations needed for successful transfer in order to satisfy the regulatory authority. It imparts the knowledge of various issues like steps involved in technology transfer, documentation needed, effective and failure factors, intellectual property rights on technology transfer, Role of R & D manager, it also emphasized on the policies which are needed to be rebuild to promote the effective technology transfer from R&D to production level.Ultimate goal of this book is to provide insight depth to pharmacy research scholar on various key concepts of Pharmaceutical Technology Transfer in order to carve their technical skills

Computer-aided applications in pharmaceutical technology Aug 12 2021 This chapter provides a basic theoretical background on experimental design application and interpretation. Techniques described include screening designs, full and fractional factorial designs, Plackett–Burman design, D-optimal designs, response surface methodology, central composite designs, Box–Behnken design, and mixture designs, etc. The reader will be introduced to the experimental domains covered by specific design, making it easier to select the one appropriate for the problem. After theoretical introduction, a number of illustrative examples of design of experiments application in the field of pharmaceutical technology are presented.

Encyclopedia of Pharmaceutical Technology Jun 29 2020 The Encyclopedia of Pharmaceutical Technology presents authoritative and contemporary articles on all aspects of drug development, dosage forms, manufacturing, and regulation-enabling the specialist and novice alike to keep abreast of developments in this rapidly evolving and highly competitive field. A dependable reference tool and a solid investment for years to come-maintaining currency through its supplements [Volume 18/Supplement 1: Published November, 1998] The Encyclopedia contains interdisciplinary contributions in a wide array of subjects, including Drugs decomposition metabolism pharmaceutical incompatibilities pharmacokinetics physicochemical properties preformulation stability Drug Delivery Systems and Devices-Development and Manufacture analysis and controls bioavailability use of computerization formulation and processing alternatives national and international registration packaging patents process validation scale-up safety and efficacy stability standards Post-Production and Practical Considerations governmental/industrial/professional organizations legal aspects national and international agencies patent life of drugs patient compliance ...and much, much more!

6th International conference on pharmaceutical technology Dec 24 2019

Pharmaceutical Technology Conference Sep 01 2020

Pharmaceutical Technology: Tableting Technology Nov 27 2022 Dealing exclusively with compression technology, this text reflects the continued popularity of the tablet as a drug form, and thereby the need to refine and enhance the pharmaceutical industry's knowledge of compression.

Encyclopedia of Pharmaceutical Technology: Design of drugs to drying and driers Jul 11 2021