Essentials Of Pharmaceutical Technology

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KYLAN CAMRYN

Pharmaceutical Dosage Forms and Drug Delivery Routledge
Remington Education: Pharmaceutics covers the basic principles of pharmaceutics, from dosage forms to drug delivery and targeting. It addresses all the principles covered in an introductory pharmacy course. As well as offering a summary of key information in pharmaceutics, it offers numerous case studies and MCQs for self assessment.
Remington Education Pharmaceutics John Wiley & Sons
Drugs and pharmaceutical industry plays a vital role in the economic development of a nation. It is one of the largest and most advanced sectors in the world, acting as a source for various drugs, medicines and their intermediates as well as other pharmaceutical formulations. India has come a long way in this field, from a country importing more than 95% of its requirement of drugs and pharmaceuticals; India now is exporting it even to developed countries. Being the intense knowledge driven industry, it offers innumerable business opportunities for the investors/ corporate the world over. The existence of well defined and strong pharmaceutical industry is important for promoting and sustaining research and developmental efforts and initiatives in an economy as well as making available the quality medicines to all at affordable prices. That is, it is essential to improve the health status of the individuals as well as the society as a whole, so that positive contributions could be made to the economic growth and regional development of a country. On the global

platform, India holds fourth position in terms of volume and thirteenth position in terms of value of production in pharmaceuticals. The pharmaceutical industry has been producing bulk drugs belonging to all major therapeutic groups requiring complicated manufacturing processes as well as a wide range of pharmaceutical machinery and equipments. The modern Indian Pharmaceutical Industry is recent and its foundation was laid in the beginning of the current century. The pharmaceutical industry can be broadly categorised as bulk drugs, formulations, IV fluids and pharmaceutical aids (such as medical equipment, hospital disposables, capsules, etc.). Special feature of the pharmaceutical industry is a large number of manufacturers in the small scale sector. The government is also encouraging the SSI sector providing some incentives. The recent developments in the technology and R & D work in this field have led to the increased growth rate of industries and have established Indian Pharmaceutical industries in the international market. The content of the book includes information about properties, general methods of analysis, methods of manufacture, of different types of drugs and pharmaceuticals. Some of the fundamentals of the book are polymeric materials used in drug delivery systems , theoretical aspects of friction and lubrication , a convenient method for conversion of quinine to quinidine, formulation and evaluation of bio-available enteric-coated erythromycin and metronidazole tablets, extraction of virginiamycin, antipyretics and analgesics, column chromatographic assay of aspirin tablets, differentiating titration of phenacetin and caffeine, infrared spectra of some compounds of pharmaceutical interest etc. This book covers an intensive study on manufacturing, production, formulation and quality control of drugs and pharmaceuticals with technology involved in it. This book is an invaluable resource for technologists, professionals and those who want to venture in this field.

Quick Review on Industrial Pharmacy

John Wiley & Sons

This book provides stepwise guidance on how to evaluate, audit, qualify and approve an active pharmaceutical ingredient (API) and packaging material manufacturer and supplier to enhance the GMP within the industry. The book will also be beneficial for institutions conducting pharmaceutical technology courses in terms of GMP and GLP applications. The Pharmaceutical Vendors Approval Manual provides readers and front-line health care products manufacturers, R&D management and biotech laboratories all the information they need to know to develop a GMP-oriented industry with trained and skilled personnel and manufacture products that meet GMP and regulatory requirements. This book provides a simple, concise and easy to use reference tool covering basic quality concepts and the elements of vendor’s assessment, qualification and approval required by the pharmaceutical educational institutions and professional certification bodies. It is equally relevant to Quality Assurance officers, Quality Control Analysts, Quality Auditors and other personnel involved in GMP/GLP services in the company. The book will also be beneficial for the institutions conducting Pharmaceutical technology study courses in terms of GMP and GLP

applications. This book provides readers and front-line health care products manufacturers, R&D management and biotech laboratories all the information they need to know to develop a GMP-oriented industry with trained and skilled personnel and manufacture products that meet GMP and regulatory requirements covers basic quality concepts and the elements of vendor’s assessment, qualification and approval required by the pharmaceutical educational institutions and professional certification bodies provides stepwise guidance on how to evaluate, audit, qualify and approve an API and packaging material manufacturer and supplier to enhance the GMP within the industry provides ready to use regulatory documentation, e.g. letter of commitment, questionnaire, SOP, etc. required for API and Packaging Materials contract Provided material can be easily tailored to incorporate changes to add in-house vendor’s qualification requirements. Erfan Syed Asif, Ph.D is a Senior Consultant at PharmEng Technology.

Essentials of Herbal Drug Technology Pharmaceutical Press

Still the only resource of its kind, the new edition of Essentials of Law and Ethics for Pharmacy Technicians clearly explains those laws and regulations relevant to technicians, while also examining issues of ethics. Fully revised to cover new developments, it presents an overview of the US legal system, reviews the development of current laws, and describes those laws affecting practice today. It adds a chapter covering the Health Information Portability and Accountability Act, the Dietary Supplement Health and Education Act, and the new FDA regulation on controlling pseudoephedrine sales. While Federal issues are covered throughout the text, state issues are addressed in the extensive appendices.

Essentials of Pharmaceutical Analysis John Wiley & Sons

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.

Essential Microbiology for Pharmacy and Pharmaceutical Science Academic Press

A firm grasp of the functions of living organisms is one of the most important prerequisites to pharmacy study. The long-awaited second edition of Essentials of Human Physiology presents concepts in physiology in a way that prepares students for their subsequent study of

pathophysiology, pharmacology, and pharmacotherapeutics. Thoroughly

Nuclear Medicine in Pharmaceutical Research Elsevier

Failure to adequately control any microbial challenge associated within process or product by robust sterilisation will result in a contaminated marketed product, with potential harm to the patient. Sterilisation is therefore of great importance to healthcare and the manufacturers of medical devices and pharmaceuticals. Sterility, sterilisation and sterility assurance for pharmaceuticals examines different means of rendering a product sterile by providing an overview of sterilisation methods including heat, radiation and filtration. The book outlines and discusses sterilisation technology and the biopharmaceutical manufacturing process, including aseptic filling, as well as aspects of the design of containers and packaging, as well as addressing the cleanroom environments in which products are prepared. Consisting of 18 chapters, the book comprehensively covers sterility, sterilisation and microorganisms; pyrogenicity and bacterial endotoxins; regulatory requirements and good manufacturing practices; and gamma radiation. Later chapters discuss e-beam; dry heat sterilisation; steam sterilisation; sterilisation by gas; vapour sterilisation; and sterile filtration, before final chapters analyse depyrogenation; cleanrooms; aseptic processing; media simulation; biological indicators; sterility testing; auditing; and new sterilisation techniques. Covers the main sterilisation methods of physical removal, physical alteration and inactivation Includes discussion of medical devices, aseptically filled products and terminally sterilised products Describes bacterial, pyrogenic, and endotoxin risks to devices and products

Aulton's Pharmaceutics Springer Nature

Essentials of Industrial Pharmacy is an attempt to comprehensively present, in a single book, various pharmaceutical processes and equipment that are frequently used for production of pharmaceutical dosage forms, along with quality control tests of these dosage forms. Pictorial/graphical illustrations provide easier understanding of complex pharmaceutical concepts, manufacturing processes of pharmaceutical dosage forms. Since it is imperative for pharmacy students to have a clear understanding of the basic concepts used in development of drugs into suitable and stable dosage forms. This book offers a wealth of information regarding basic aspects of pharmaceutical processes and dosage forms, in a single book, for undergraduate pharmacy students or science students (with no pharmacy background) intended to work in the pharmaceutical Industry.

Sterility, Sterilisation and Sterility Assurance for Pharmaceuticals ASIA PACIFIC BUSINESS PRESS Inc.

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.

Remington Pharmamed Press

This text is an essential study guide for undergraduates studying microbiology modules on degree courses in pharmacy and the pharmaceutical sciences. Written by two pharmacists each with over 30 years experience of teaching, research and publishing in pharmaceutical microbiology, it distills the subject down into the essential elements that pharmacists and pharmaceutical scientists need to know in order to practice their profession, and it covers all the microbiology components of the Royal Pharmaceutical Society's indicative syllabus that is at the heart of every UK pharmacy degree. Much of the applied microbiology that a pharmacist or pharmaceutical scientist needs to know is unique: topics like the manufacture of microbiologically sterile medicines and their subsequent protection against microbial contamination and spoilage, the detection of hazardous microorganisms in medicines and antibiotics' manufacture and assay are all covered here. Essential Microbiology for Pharmacy and Pharmaceutical Science Students displays material in an easy to-digest format and concepts are explained using diagrams, tables and pictures wherever possible. The book contains an extensive self-assessment section that includes typical multiple choice, short answer and essay-style examination questions, and a companion website to further test your knowledge from a selection of questions along with further links to relevant sites.

Essentials of Pharmaceutical Technology CRC Press

"... this text takes a novel approach... The style... is not as dry as other statistics texts, and so should not be intimidating even to a relative newcomer to the subject... The layout is easy to navigate, there are chapter aims, summaries and “key point boxes” throughout." -The Pharmaceutical Journal, 2008 This text is a clear, accessible introduction to the key statistical techniques employed for the analysis of data within this subject area. Written in a concise and logical manner, the book explains why statistics are necessary and discusses the issues that experimentalists need to consider. The reader is carefully taken through the whole process, from planning an experiment to interpreting the results, avoiding unnecessary calculation methodology. The most commonly used statistical methods are described in terms of their purpose, when they should be used and what they mean once they have been performed. Numerous examples are provided throughout the text, all within a pharmaceutical context, with key points highlighted in summary boxes to aid student understanding. Essential Statistics for the Pharmaceutical Sciences takes a new and innovative approach to statistics with an informal style that will appeal to the reader who finds statistics a challenge! This book is an invaluable introduction to statistics for any science student. It is an essential text for students taking biomedical or pharmaceutical-based science degrees and also a useful guide for researchers.

Pharmaceutical Microbiology Elsevier Health Sciences

"Essentials of Pharmacy Management is an accessible introduction to management in an increasingly business-oriented environment. It provides a jump-start to leadership roles and career advancement. This textbook provides pharmacy students with an understanding of business processes used, and how those processes

impact their practice of pharmacy in providing patient care. The material provides those who aspire to become managers in healthcare organizations with a foundation of how to manage in an environment that is focused on "the business of healthcare." For pharmacists who prefer not to move into management positions, the book explains how and why business decisions are made relative to practice."--Publisher.

Essentials of Law and Ethics for Pharmacy Technicians CRC Press

Essentials of Pharmaceutical TechnologyPharmamed Press

Essentials of Industrial Pharmacy CRC Press

Essentials of Industrial Pharmacy is an attempt to comprehensively present, in a single book, various pharmaceutical processes and equipment that are frequently used for production of pharmaceutical dosage forms, along with quality control tests of these dosage forms. Pictorial/graphical illustrations provide easier understanding of complex pharmaceutical concepts, manufacturing processes of pharmaceutical dosage forms. Since it is imperative for pharmacy students to have a clear understanding of the basic concepts used in development of drugs into suitable and stable dosage forms. This book offers a wealth of information regarding basic aspects of pharmaceutical processes and dosage forms, in a single book, for undergraduate pharmacy students or science students (with no pharmacy background) intended to work in the pharmaceutical Industry.

Springer Nature

This book is a compilation and commentary of selected laws and regulations pertaining to the general practice of pharmacy in the United States. It is designed to be of assistance to practicing pharmacists, those seeking licensure by reciprocity, and other interested healthcare professionals.

Handbook of Validation in Pharmaceutical Processes, Fourth Edition CRC Press

Completely revised and updated, this third edition of Pharmaceutical Dosage Forms and Drug Delivery elucidates the basic principles of pharmaceutics, biopharmaceutics, dosage form design, and drug delivery – including emerging new biotechnology-based treatment modalities. The authors integrate aspects of physical pharmacy, chemistry, biology, and biopharmaceutics into drug delivery. This book highlights the increased attention that the recent spectacular advances in gene therapy and nanotechnology have brought to dosage form design and drug delivery. With the expiration of older patents and generic competition, the biopharmaceutical industry is evolving faster than ever. Apart from revising and updating existing chapters on the basic principles, this edition highlights the emerging emphasis on drug discovery, antibodies and antibody-drug conjugates as therapeutic moieties, individualized medicine including patient stratification strategies, targeted drug delivery, and the increasing role of modeling and simulation. Although there are numerous books on pharmaceutics and dosage forms, most cover different areas of the discipline and do not provide an integrated approach. The integrated approach of this book not only provides a singular perspective of the overall field, but also supplies a unified source of information for students, instructors and professionals, saving their time and money.

Voigt's Pharmaceutical Technology
John Wiley & Sons
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.

Understanding the Basics of QSAR for Applications in Pharmaceutical Sciences and Risk Assessment
Springer Nature
This book mainly aims in guiding the teachers and students, the fundamental principles of Pharmaceutical Engineering. This book helps the students in overcoming the obstacles faced by them in understanding the aspects of Pharmaceutical Engineering. Topics, which usually confuse the students, are explained along with applications to broaden their mental horizon regarding the subject. This book is meant to serve as an introductory text for undergraduate students doing Bachelor of Pharmaceutical Sciences (B. Pharm). It will also prove useful to people working in pharmaceutical and allied industries. In keeping with its initiatory approach to pharmaceutical engineering, only the important aspects of the subject have been discussed in a simple and easily comprehensible manner.

Industrial Pharmacy Elsevier
Pharmaceutical Microbiology: Essentials for Quality Assurance and Quality Control presents that latest information on protecting pharmaceutical and healthcare products from spoilage by microorganisms, and protecting patients and consumers. With both sterile and non-sterile products, the effects can range from discoloration to the potential for fatality. The book provides an overview of the function of the pharmaceutical microbiologist and what they need to know, from regulatory filing and GMP, to laboratory design and management, and compendia tests and risk assessment tools and techniques. These key aspects are discussed through a series of dedicated chapters, with topics covering auditing, validation, data analysis, bioburden, toxins, microbial identification, culture media, and contamination control. Contains the applications of pharmaceutical microbiology in sterile and

non-sterile products Presents the practical aspects of pharmaceutical microbiology testing Provides contamination control risks and remediation strategies, along with rapid microbiological methods

Includes bioburden, endotoxin, and specific microbial risks Highlights relevant case studies and risk assessment scenarios
Current Research in Pharmaceutical Technology CRC Press

This text defines the role and scope of nuclear medicine imaging techniques (gamma scintigraphy) in pharmaceutical research, giving information from clinical trial data.

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