

Textbook Of Pharmaceutical Analysis By Ravi Shankar

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Introduction to Pharmaceutical Analysis - R R Badwaik 2019-12-02

The content of the book, Introduction to Pharmaceutical Analysis, has been prepared primarily in accordance to the syllabus prepared by the Pharmacy Council of India for B. Pharm 1st semester course. However, the content of the book is not limited to the syllabus only, it provides the information which are bare necessary to understand a particular concept but beyond the syllabus. Moreover, there are two Appendices, Appendix I and II at the end. These are equally important and need to be known. One is Test solutions and the other one is for Volumetric solutions. In fact, many students do not know the difference between these solutions that are essential for analysis. How to prepare all these solutions are mentioned there. Hence, the book would be a real helpful to all those who are associated to pharmaceutical analysis, may be during their post-graduation and during service pharmaceutical industry.

Heart and Toxins - Dr. Meenakshisundaram Sundaram Ramachandran 2014-08-12

The Heart and Toxins brings together global experts to provide the latest information and clinical trials that make the connection between genetic susceptibility, gene expression, and environmental factors in cardiovascular diseases. This unique reference, edited by renowned cardiologist Meenakshi Sundaram Ramachandran, solves the problem of managing multiple clinical cases of cardiovascular toxicity. It allows connections to be made between

research, diagnosis, and treatment to avoid higher morbidity and mortality rates as a result of cardiovascular toxicity. Structured to bring together exploration into the epidemiology, molecular mechanism, pathogenesis, environmental factors and management in cardiovascular toxins" Included various topics on cardiovascular toxins such as plant, chemical, animal, nanomaterial and marine biology induced cardiac damage - which are new ideas discussed in detail Comprehensive chapters on the cardiovascular toxicity from drugs, radiotherapy and radiological imaging Enables you to manage multiple clinical cases of cardiovascular toxicity Outlined conclusions at the end of each chapter providing "key learning points" to help you organize the chapter's details without losing insight

The Pearson Guide To GPAT and other Entrance Examination in Pharmacy - Umang H Shah 2017

The Pearson Guide to GPAT and Other Competitive Examinations in Pharmacy• The entire book is divided into six modules as per GPAT syllabus which also covers the syllabus of all other entrance examinations like NIPER, MAHCET and GUJCET and MANIPAL

Anatomy & Physiology of Eye, 2e (HB) - A. K. Khurana 2008-02-01

Ross & Wilson Anatomy and Physiology in Health and Illness E-Book - Anne Waugh 2018-07-12

The new edition of the hugely successful Ross and Wilson Anatomy & Physiology in Health and

Illness continues to bring its readers the core essentials of human biology presented in a clear and straightforward manner. Fully updated throughout, the book now comes with enhanced learning features including helpful revision questions and an all new art programme to help make learning even easier. The 13th edition retains its popular website, which contains a wide range of 'critical thinking' exercises as well as new animations, an audio-glossary, the unique Body Spectrum© online colouring and self-test program, and helpful weblinks. Ross and Wilson Anatomy & Physiology in Health and Illness will be of particular help to readers new to the subject area, those returning to study after a period of absence, and for anyone whose first language isn't English. Latest edition of the world's most popular textbook on basic human anatomy and physiology with over 1.5 million copies sold worldwide Clear, no nonsense writing style helps make learning easy Accompanying website contains animations, audio-glossary, case studies and other self-assessment material, the unique Body Spectrum© online colouring and self-test software, and helpful weblinks Includes basic pathology and pathophysiology of important diseases and disorders Contains helpful learning features such as Learning Outcomes boxes, colour coding and design icons together with a stunning illustration and photography collection Contains clear explanations of common prefixes, suffixes and roots, with helpful examples from the text, plus a glossary and an appendix of normal biological values. Particularly valuable for students who are completely new to the subject, or returning to study after a period of absence, and for anyone whose first language is not English All new illustration programme brings the book right up-to-date for today's student Helpful 'Spot Check' questions at the end of each topic to monitor progress Fully updated throughout with the latest information on common and/or life threatening diseases and disorders Review and Revise end-of-chapter exercises assist with reader understanding and recall Over 150 animations - many of them newly created - help clarify underlying scientific and physiological principles and make learning fun

Logistics 4.0 - Turan Paksoy 2020-12-18
Industrial revolutions have impacted both,

manufacturing and service. From the steam engine to digital automated production, the industrial revolutions have conducted significant changes in operations and supply chain management (SCM) processes. Swift changes in manufacturing and service systems have led to phenomenal improvements in productivity. The fast-paced environment brings new challenges and opportunities for the companies that are associated with the adaptation to the new concepts such as Internet of Things (IoT) and Cyber Physical Systems, artificial intelligence (AI), robotics, cyber security, data analytics, block chain and cloud technology. These emerging technologies facilitated and expedited the birth of Logistics 4.0. Industrial Revolution 4.0 initiatives in SCM has attracted stakeholders' attentions due to its ability to empower using a set of technologies together that helps to execute more efficient production and distribution systems. This initiative has been called Logistics 4.0 of the fourth Industrial Revolution in SCM due to its high potential. Connecting entities, machines, physical items and enterprise resources to each other by using sensors, devices and the internet along the supply chains are the main attributes of Logistics 4.0. IoT enables customers to make more suitable and valuable decisions due to the data-driven structure of the Industry 4.0 paradigm. Besides that, the system's ability of gathering and analyzing information about the environment at any given time and adapting itself to the rapid changes add significant value to the SCM processes. In this peer-reviewed book, experts from all over the world, in the field present a conceptual framework for Logistics 4.0 and provide examples for usage of Industry 4.0 tools in SCM. This book is a work that will be beneficial for both practitioners and students and academicians, as it covers the theoretical framework, on the one hand, and includes examples of practice and real world.

[Social Pharmacy - Health Education and Community Pharmacy](#) - Monika Bhairam
2021-09-07

The textbook of Social Pharmacy has been written for students of diploma in pharmacy first-year students keeping in mind specific requirements of the Pharmacy Council of India (PCI), Education Regulation - 2020. This is a

bilingual book in both English and Hindi for easy understanding to students. This book is covering the entire syllabus as per new PCI norms including practicals and previous year question papers. This book containing ten chapters with an introduction to social pharmacy. In preceding chapters role of pharmacists, environment and health, psychosocial pharmacy, nutrition and health, epidemiology, national health program and pharmacoeconomics have discussed. This book is basically health education and community pharmacy.

Global Perspectives on Astaxanthin - Gokare A. Ravishankar 2021-04-10

Global Perspectives on Astaxanthin: From Industrial Production to Food, Health, and Pharmaceutical Applications explores the range of practical applications for this molecule, focusing on nutraceutical, pharmaceutical and cosmeceutical products, along with food and feed. This volume brings together the most relevant research, background and future thinking on astaxanthin, focusing on its health benefits. Chapters cover phytopharmaceuticals, industrial production, feeds, downstream processing, regulations, products, color, pigment, cosmetics, bioactive compounds, relationships to other carotenoids, and skin care. The detailed information on its production, processing, utilization and future applications will be of particular use to academic and industry researchers in pharmaceutical sciences, pharmacology and nutrition. Provides detailed information on astaxanthin, including its production, processing, utilization and future applications Includes discussion on the commercial analysis procedure Offers critical analysis on current and potential applications of astaxanthin as contributed by 121 authors from 22 countries in academia, research institutes and industries

Pharmaceutical Calibration, Validation and Qualification: A Comprehensive Approach - Shiv Shankar Shukla 2023-02-14

This up-to-date and unique monograph covers the different aspects of pharmaceutical validation, calibration, qualification and documentation. It discusses the various methods and processes under all these heads. It includes eight major sections and exhaustively covers each topic. The book includes interesting and

timely topics like the 'Validation of herbals' considering the increasing reliance on herbal medicines. It includes a section of validation of dosage forms, which is an essential topic for any pharmaceutical scientist. The chapters provide lucid illustrations, figures, flowcharts and other diagrams to facilitate understanding. A final section on 'expert opinion' provides a rundown about the global scenario to the readers. The book serves as a complete reference material for students, researchers and industry experts in the field of pharmaceutical sciences, medicinal chemistry and pharmacology.

Social and Preventive Pharmacy - Ravi Shankar K. 2021-10

Instrumental Methods of Analysis in Biotechnology - Dinesh Kumar Chatanta 2012-05-18

Food Process Engineering and Quality Assurance - C.O. Mohan 2018-02-28

This new book, Food Process Engineering and Quality Assurance, provides an abundance of valuable new research and studies in novel technologies used in food processing and quality assurance issues of food. The 750-page book gives a detailed technical and scientific background of various food processing technologies that are relevant to the industry. The food process related application of engineering technology involves interdisciplinary teamwork, which, in addition to the expertise of interdisciplinary engineers, draws on that of food technologists, microbiologists, chemists, mechanical engineers, biochemists, geneticists, and others. The processes and methods described in the book are applicable to many areas of the food industry, including drying, milling, extrusion, refrigeration, heat and mass transfer, membrane-based separation, concentration, centrifugation, fluid flow and blending, powder and bulk-solids mixing, pneumatic conveying, and process modeling, monitoring, and control. Food process engineering know-how can be credited with improving the conversion of raw foodstuffs into safe consumer products of the highest possible quality. This book looks at advanced materials and techniques used for, among other things, chemical and heat sterilization, advanced

packaging, and monitoring and control, which are essential to the highly automated facilities for the high-throughput production of safe food products. With contributions from prominent scientists from around the world, this volume provides an abundance of valuable new research and studies on novel technologies used in food processing and quality assurance issues. It gives a detailed technical and scientific background of various food processing technologies that are relevant to the industry. Special emphasis is given to the processing of fish, candelilla, dairy, and bakery products. Rapid detection of pathogens and toxins and application of nanotechnology in ensuring food safety are also emphasized. Key features:

- Presents recent research development with applications
- Discusses new technology and processes in food process engineering
- Provides several chapters on candelilla (which is frequently used as a food additive but can also be used in cosmetics, drugs, etc.), covering its characteristics, common uses, geographical distribution, and more

Clinical Pharmacy and Pharmacotherapeutics - K. Ravi Shankar 2019-12

This edition emphasizes several new themes which includes General Topics, Drugs used in Different Life Stages, Case Studies of Different Disorders, Problems related to Clinical Pharmacotherapeutics. Different Case Studies pertaining to wide variety of diseases are discussed; explicit answers and discussions are provided in the text of Part IV.

The Theory and Practice of Industrial Pharmacy - Roop K.. Khar 2013

Essentials of Pharmaceutical Analysis -

Muhammad Sajid Hamid Akash 2019-12-17

Recent advances in the pharmaceutical sciences and biotechnology have facilitated the production, design, formulation and use of various types of pharmaceuticals and biopharmaceuticals. This book provides detailed information on the background, basic principles, and components of techniques used for the analysis of pharmaceuticals and biopharmaceuticals. Focusing on those analytical techniques that are most frequently used for pharmaceuticals, it classifies them into three major sections and 19 chapters, each of which discusses a respective technique in detail. Chiefly

intended for graduate students in the pharmaceutical sciences, the book will familiarize them with the components, working principles and practical applications of these indispensable analytical techniques.

Social and Administrative Aspects of Pharmacy in Low- and Middle-Income Countries -

Mohamed Izham Mohamed Ibrahim 2017-10-31

Social and Administrative Aspects of Pharmacy in Low- and Middle-Income Countries: Present Challenges and Future Solutions examines the particularities of low- and middle-income countries and offers solutions based on their needs, culture and available resources. Drawing from the firsthand experience of researchers and practitioners working in these countries, this book addresses the socio-behavioral aspects of pharmacy and health, pharmacoconomics, pharmaceutical policy, supply management and marketing, pharmacoepidemiology and public health pharmacy specific to low- and middle-income countries. While some practices may be applied appropriately in disparate places, too often pharmacy practice in low- and middle-income countries is directly copied from successes in developed countries, despite the unique needs and challenges low- and middle-income countries face. Examines key issues and challenges of pharmacy practice and the pharmaceutical sector specific to low- and middle-income countries Compares pharmacy practice in developed and developing countries to highlight the unique challenges and opportunities of each Provides a blueprint for the future of pharmacy in low- and middle-income countries, including patient-centered care, evidence-based care and promoting the role of the pharmacist for primary health care in these settings

Fingerprinting Analysis and Quality Control Methods of Herbal Medicines - Ravindra Kumar Pandey 2018-07-03

Due to the increase in the consumption of herbal medicine, there is a need to know which scientifically based methods are appropriate for assessing the quality of herbal medicines. Fingerprinting has emerged as a suitable technique for quality estimation. Chemical markers are used for evaluation of herbal medicines. Identification and quantification of

these chemical markers are crucial for quality control of herbal medicines. This book provides updated knowledge on methodology, quality assessment, toxicity analysis and medicinal values of natural compounds.

Managing Supply Chain Risk and Disruptions: Post COVID-19 - Aravind Raj Sakthivel
2021-06-24

This book summarizes the effect of COVID-19 on the global supply chain. Eminent researchers, practitioners, and professors discuss the challenges faced by supply chain providers and supply chain strategies related to various global, retail, fast moving consumer goods, humanitarian, pharmaceutical, and agricultural supply chains. This book also suggests the resilient approach adopted by supply chain organizations for quick recovery and re-establishing their networks. This book helps the readers explore the pandemic's impact on the supply chain and rebuilding the same using suitable approaches.

Insight on Genotoxicity - Shiv Shankar Shukla
2020-10-14

Genetic toxicology is considered to be an important assessment tool as there is genetic impact of artificial chemicals. Insight on Genotoxicity discusses testing, mechanism, prediction, and bioindicator of genotoxicity taking into consideration recent advances in nano-engineered particles. Corollary of DNA dent is also discussed in detail taking into consideration the impact of ICH guidelines on genotoxicity testing, which is important for drug discovery innovation and development. Perspective review of genotoxicity evaluation in phytopharmaceuticals has been mentioned along with the prevention of genotoxicity in brief viewpoint. Salient Features Presents methods, standard protocols, and guidelines for genotoxicity testing Examines the impact of ICH Guidelines on genetic toxicity testing which is a regulatory requirement for drug discovery and development Defines appropriate strategies about advances in in vivo genotoxicity testing which have been listed along with progress and prospects Discusses advancement in the high-throughput approaches for genotoxicity testing Details computational prediction of genotoxicity with consideration of mutagenicity, chromosomal damage caused and strategies for computational

prediction in drug development

I Could Not be Hindu - 2020

Microbes in Land Use Change Management - Jay Shankar Singh 2021-08-25

Microbes in Land Use Change Management details the various roles of microbial resources in management of land uses and how the microbes can be used for the source of income due to their cultivation for the purpose of biomass and bioenergy production. Using various techniques, the disturbed and marginal lands may also be restored eco-friendly in present era to fulfil the feeding needs of mankind around the globe. Microbes in Land Use Change Management provides standard and up to date information towards the land use change management using various microbial technologies to enhance the productivity of agriculture. Needless to say that Microbes in Land Use Change Management also considers the areas including generation of alternative energy sources, restoration of degraded and marginal lands, mitigation of global warming gases and next generation - omics technique etc. Land use change affects environment conditions and soil microbial community. Microbial population and its species diversity have influence in maintaining ecosystem balance. The study of changes of microbial population provides an idea about the variation occurring in a specific area and possibilities of restoration. Meant for a multidisciplinary audience Microbes in Land Use Change Management shows the need of next-generation omics technologies to explore microbial diversity. Describes the role of microbes in generation of alternative source of energy Gives recent information related to various microbial technology and their diversified applications Provides thorough insight in the problems related to landscape dynamics, restoration of soil, reclamation of lands mitigation of global warming gases etc. eco-friendly way using versatility of microbes Includes microbial tools and technology in reclamation of degraded, disturbed and marginal lands, mitigation of global warming gases

Progress and Recent Trends in Microbial Fuel Cells - Patit Paban Kundu 2018-06-07

Progress and Recent Trends in Microbial Fuel Cells provides an in-depth analysis of the

fundamentals, working principles, applications and advancements (including commercialization aspects) made in the field of Microbial Fuel Cells research, with critical analyses and opinions from experts around the world. Microbial Fuel cell, as a potential alternative energy harnessing device, has been progressing steadily towards fruitful commercialization. Involvements of electrolyte membranes and catalysts have been two of the most critical factors toward achieving this progress. Added applications of MFCs in areas of bio-hydrogen production and wastewater treatment have made this technology extremely attractive and important. . Reviews and compares MFCs with other alternative energy harnessing devices, particularly in comparison to other fuel cells. Analyses developments of electrolyte membranes, electrodes, catalysts and biocatalysts as critical components of MFCs, responsible for their present and future progress. Includes commercial aspects of MFCs in terms of (i) generation of electricity, (ii) microbial electrolysis cell, (iii) microbial desalination cell, and (iv) wastewater and sludge treatment.

Modern Pharmaceuticals - Gilbert S. Banker
2002-05-24

"Completely revised and expanded throughout. Presents a comprehensive integrated, sequenced approach to drug dosage formulation, design, and evaluation. Identifies the pharmacodynamic and physicochemical factors influencing drug action through various routes of administration."

Advancements in Controlled Drug Delivery Systems - Verma, Shekhar 2022-03-25

The many drawbacks of conventional dosage forms and delivery systems are overcome by designing and developing controlled release drug delivery systems, and pharmaceutical and other scientists have carried out extensive and intensive investigations in the field to explore their applications. A controlled-release drug formulation can improve product efficacy and extend patent protection. As controlled drug delivery systems continue to play a vital role in delivering various types of therapeutic agents in a controlled manner, researchers are only just scratching the surface of their full potential. *Advancements in Controlled Drug Delivery Systems* supplies information on translating the physicochemical properties of drugs into drug delivery systems, explores how drugs are

administered via various routes, and discusses recent advancements in the fabrication and development of controlled drug delivery systems. It also underlines the methodology of controlled drug delivery system preparation and the significance, disadvantages, detailed classifications, and relevant examples. Covering topics such as machine learning and oral-controlled drug delivery, this book is ideal for pharmacists, healthcare professionals, researchers, academicians, research centers, health units, students, and pharmaceutical and scientific laboratories.

A Textbook of Pharmaceutical Analysis -
Kenneth Antonio Connors 1975

Microbial Ecology of Wastewater Treatment Plants - Maulin P. Shah 2021-05-15

Microbial Ecology of Wastewater Treatment Plants presents different methods and techniques used in microbial ecology to study the interactions and evolution of microbial populations in WWTPs, particularly the new molecular tools developed in the last decades. These molecular biology-based methods (e.g. studies of DNA, RNA and proteins) provide a high resolution of information compared to traditional ways of studying microbial wastewater populations, such as microscopic examination and culture-based methods. In addition, this book addresses the ability of microorganisms to degrade environmental pollutants. Describes application of different Omics tools in Wastewater treatment plants (WWTPs) Demonstrates the role of microorganisms in WWTPs Includes discussions on the microbial ecology of WWTPs Covers the microbial diversity of activated sludge Emphasizes cutting-edge molecular tools

Ethical Criteria for Medicinal Drug Promotion -
World Health Organization 1988

"Resolution WHA41.17 adopted by the Forty-first World Health Assembly, 13 May 1988" -- p.1.
Textbook of Pharmacognosy - Mukesh Kumar Sharma 2021-09-07

The textbook of Pharmacognosy has been written for students of diploma in pharmacy first-year students keeping in mind specific requirements of the Pharmacy Council of India (PCI), Education Regulation - 2020. This is a bilingual book in both English and Hindi for easy understanding to

students. This book is covering the entire syllabus as per new PCI norms including practicals and previous year question papers. This book containing eleven chapters starting with history and scope of pharmacognosy. Further, chapter including classification of drugs, quality control and analysis tests for herbal drugs. An individual chapter for different categories of drugs based on their biological effects. The book also containing description of plant fibres used as surgical dressings, traditional system of medicine and methods of preparation of Ayurvedic formulation. The later chapters describing about aromatic plants, herbs as food, herbal cosmetics and phytochemical investigation of drugs.

Pharmaceutical Quality Assurance - Mr. Manohar A. Potdar 2006

Analytical Method Development and Validation - Michael E. Swartz 2018-10-03
Describes analytical methods development, optimization and validation, and provides examples of successful methods development and validation in high-performance liquid chromatography (HPLC) areas. The text presents an overview of Food and Drug Administration (FDA)/International Conference on Harmonization (ICH) regulatory guidelines, compliance with validation requirements for regulatory agencies, and methods validation criteria stipulated by the US Pharmacopoeia, FDA and ICH.

Pharmaceutical Analysis E-Book - David G. Watson 2015-12-24
Pharmaceutical analysis determines the purity, concentration, active compounds, shelf life, rate of absorption in the body, identity, stability, rate of release etc. of a drug. Testing a pharmaceutical product involves a variety of chemical, physical and microbiological analyses. It is reckoned that over £10 billion is spent annually in the UK alone on pharmaceutical analysis, and the analytical processes described in this book are used in industries as diverse as food, beverages, cosmetics, detergents, metals, paints, water, agrochemicals, biotechnological products and pharmaceuticals. This is the key textbook in pharmaceutical analysis, now revised and updated for its fourth edition. Worked calculation examples Self-assessment Additional problems (self tests) Practical boxes Key points boxes New chapter on Biotech products. New

chapter on electrochemical methods in diagnostics. Greatly extended chapter on molecular emission spectroscopy to accommodate developments and innovations in the area. Now on StudentConsult

Pharmaceutics-II - Dr. P. V. Kasture 2015-07
I-Dispensing Pharmacy - II-Dispensed Medications - a-Monophasic Liquid Dosage Forms - b-Biphasic Liquid Dosage Forms - c- Semi-solid Dosage Forms - III - Sterile Dosage Forms

Cognitive Computing for Human-Robot Interaction - Mamta Mittal 2021-08-13
Cognitive Computing for Human-Robot Interaction: Principles and Practices explores the efforts that should ultimately enable society to take advantage of the often-heralded potential of robots to provide economical and sustainable computing applications. This book discusses each of these applications, presents working implementations, and combines coherent and original deliberative architecture for human-robot interactions (HRI). Supported by experimental results, it shows how explicit knowledge management promises to be instrumental in building richer and more natural HRI, by pushing for pervasive, human-level semantics within the robot's deliberative system for sustainable computing applications. This book will be of special interest to academics, postgraduate students, and researchers working in the area of artificial intelligence and machine learning. Key features: Introduces several new contributions to the representation and management of humans in autonomous robotic systems; Explores the potential of cognitive computing, robots, and HRI to generate a deeper understanding and to provide a better contribution from robots to society; Engages with the potential repercussions of cognitive computing and HRI in the real world. Introduces several new contributions to the representation and management of humans in an autonomous robotic system Explores cognitive computing, robots and HRI, presenting a more in-depth understanding to make robots better for society Gives a challenging approach to those several repercussions of cognitive computing and HRI in the actual global scenario

Eco-friendly Polymer Nanocomposites - Vijay Kumar Thakur 2015-06-22
This book contains precisely referenced chapters,

emphasizing environment-friendly polymer nanocomposites with basic fundamentals, practicality and alternatives to traditional nanocomposites through detailed reviews of different environmental friendly materials procured from different resources, their synthesis and applications using alternative green approaches. The book aims at explaining basics of eco-friendly polymer nanocomposites from different natural resources and their chemistry along with practical applications which present a future direction in the biomedical, pharmaceutical and automotive industry. The book attempts to present emerging economic and environmentally friendly polymer nanocomposites that are free from side effects studied in the traditional nanocomposites. This book is the outcome of contributions by many experts in the field from different disciplines, with various backgrounds and expertises. This book will appeal to researchers as well as students from different disciplines. The content includes industrial applications and will fill the gap between the research works in laboratory to practical applications in related industries.

Ion-Exchange Chromatography of Proteins - Shuichi Yamamoto 1988-04-14

Showing chemists how to predict ion-exchange chromatography (IEC) separation behavior and how to determine appropriate operating conditions, this reference illustrates procedures, apparatus, and types of ion exchangers, emphasizing the design and application of large-scale IEC. Complete with more than 100 useful tables and diagrams, *Ion-Exchange Chromatography of Proteins* explains the effects of each variable on separation behavior ... compares models and equations describing separation behavior of proteins in IEC with experimental results ... introduces design calculation procedures for scale up, adapting IEC for individual requirements ... discusses parameters affecting separation behavior, including adsorption equilibria, stationary phase diffusion, and axial dispersion ... provides examples of the most up-to-date applications, such as high- or medium-performance IEC and large-scale operations ... and reviews both theoretical and experimental literature. *Ion-Exchange Chromatography of Proteins* serves as an important reference for analytical,

agricultural, food, and pharmaceutical chemists, chromatographers, food scientists and technologists, biochemists, and biotechnologists. Book jacket.

The Theory and Practice of Industrial Pharmacy - Leon Lachman 1986

Remington - David B. Troy 2006

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. EXPERIMENTAL PHARMACEUTICAL ORGANIC CHEMISTRY - ASIF HUSAIN 2021-01-25

This book, *Experimental Pharmaceutical Organic Chemistry*, is meant for D. Pharm and B. Pharm students. The book has been prepared in accordance with the latest syllabi of pharmacy courses. Chemistry is a fascinating branch of science. Practical aspects of chemistry are interesting due to colour reactions, synthesis of drugs, analysis and observation of beautiful crystal development. The important aspects involved in the practicals of pharmaceutical organic chemistry have been comprehensively covered in the book and the subject matter has been organized properly. The language is easy to understand. I hope the students studying pharmaceutical chemistry would be benefitted from this book. In the book, general and specific safety notes in detail are provided followed by explanation of common laboratory techniques like glassware handling, heating process, crystallization, filtration, drying, melting & boiling point, chromatography etc. A number of equipments, apparatuses and glass wares used

in a pharmaceutical chemistry lab are also provided with diagrams. Specific qualitative methods for estimation of elements, functional groups and some individual compounds have been described. Derivative preparation of some organic compounds is presented to further confirm the presence of a particular compound. Syntheses of different organic and pharmaceutical compounds with chemical reaction have also been given. It is my belief that this book will cater to the needs of the Diploma and undergraduate pharmacy students during their study as well as after completion of their course. Constructive comments on the content and approach of the book from the readers will be highly appreciated.

IoT-Based Data Analytics for the Healthcare Industry - Sanjay Kumar Singh 2020-12-01

IoT Based Data Analytics for the Healthcare Industry: Techniques and Applications explores recent advances in the analysis of healthcare industry data through IoT data analytics. The book covers the analysis of ubiquitous data generated by the healthcare industry, from a wide range of sources, including patients, doctors, hospitals, and health insurance companies. The book provides AI solutions and support for healthcare industry end-users who need to analyze and manipulate this vast amount of data. These solutions feature deep learning and a wide range of intelligent methods, including simulated annealing, tabu search, genetic algorithm, ant colony optimization, and particle swarm optimization. The book also explores challenges, opportunities, and future research directions, and discusses the data collection and pre-processing stages, challenges and issues in data collection, data handling, and

data collection set-up. Healthcare industry data or streaming data generated by ubiquitous sensors cocooned into the IoT requires advanced analytics to transform data into information. With advances in computing power, communications, and techniques for data acquisition, the need for advanced data analytics is in high demand.

Provides state-of-art methods and current trends in data analytics for the healthcare industry

Addresses the top concerns in the healthcare industry using IoT and data analytics, and

machine learning and deep learning techniques

Discusses several potential AI techniques developed using IoT for the healthcare industry

Explores challenges, opportunities, and future research directions, and discusses the data collection and pre-processing stages

The Vital Question - Nick Lane 2015

Why is life the way it is? Bacteria evolved into complex life just once in four billion years of life on earth-and all complex life shares many strange properties, from sex to ageing and death. If life evolved on other planets, would it be the same or completely different?In *The Vital Question*, Nick Lane radically reframes evolutionary history, putting forward a cogent solution to conundrums that have troubled scientists for decades. The answer, he argues, lies in energy: how all life on Earth lives off a voltage with the strength of a bolt of lightning. In unravelling these scientific enigmas, making sense of life's quirks, Lane's explanation provides a solution to life's vital questions: why are we as we are, and why are we here at all?This is ground-breaking science in an accessible form, in the tradition of Charles Darwin's *The Origin of Species*, Richard Dawkins' *The Selfish Gene*, and Jared Diamond's *Guns, Germs and Steel*.