Pharmaceutical Analysis Book By Ravi Shankar

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Method Validation in Pharmaceutical Analysis CRC Press
While systems biology and pharmacodynamics have evolved in parallel, there are significant interrelationships that can enhance drug discovery and enable optimized therapy for each patient. Systems pharmacology is the relatively new discipline that is the interface between these two methods. This book is the first to cover the expertise from systems biology and pharmacodynamics researchers, describing how systems pharmacology may be developed and refined further to show practical applications in drug development. There is a growing awareness that pharmaceutical companies should reduce the high attrition in the pipeline due to insufficient efficacy or toxicity found in proof-of-concept and/or Phase II studies. Systems Pharmacology and Pharmacodynamics discusses the framework for integrating information obtained from understanding physiological/pathological pathways (normal body function system vs. perturbed system due to disease) and pharmacological targets in order to predict clinical efficacy and adverse events through iterations between mathematical modeling and experimentation.

Clinical Pharmacy and Pharmacotherapeutics CRC Press
Written for sleep technologists, Clinical Atlas of Polysomnography provides basic information regarding normal sleep, sleep disorders, and electrophysiology that is outside of the scope of the AASM manual (AASM Manual for the Scoring of Sleep and Associated Events). It aims to act as a guide through the fundamental aspects of, for example, types of overnight sleep study, establishing a sleep laboratory, preparing the patient for a sleep evaluation study, placement of electrodes and leads, and the scientific aspects of such placement, i.e., why they are placed at that particular position. This information will be very useful in those parts of the globe where formal training in sleep technology is not yet available. Many further chapters focus on depicting real-time illustrations of sleep data as captured in the sleep laboratory and the scoring of recording data. Information regarding common montages, artifacts, and troubleshooting in the sleep laboratory will facilitate the reader’s journey as a trainee sleep technologist. While scoring sleep recordings, the "When you score the data" histogram can provide a great deal of useful information, and this has been explained in detail in this book. Most importantly, it is prudent to be able to write reports that are both informative and easy to understand by physicians who do not have advanced knowledge of sleep medicine. A chapter has been dedicated to explaining this in detail. Lastly, the authors have provided ready-made forms, questionnaires, and documents that can either be used as they are or with some modifications. This up-to-date and comprehensive volume will be an invaluable guide for technicians and physicians who wish to practice sleep medicine and will be useful for sleep technology and physician training programs. The volume is intended to complement, not be a substitute for, the AASM scoring manual, as many areas that are covered in the manual are not covered here.

Service Systems Engineering and Management Royal Society of Chemistry
Completely rewritten, revised, and updated, this Sixth Edition reflects the latest technologies and applications in spectroscopy, mass spectrometry, and chromatography. It illustrates practices and methods specific to each major chemical analytical technique while showcasing innovations and trends currently impacting the field. Many of the

GIS in Public Health Practice Pharmamed Press
This authoritative volume provides a holistic picture of antibody-drug conjugates (ADCs). Fourteen comprehensive chapters are divided into six sections including an introduction to ADCs, the ADC construct, development issues, landscape, IP and pharmacoeconomics, case studies, and the future of the field. The book examines everything from the selection of the antibody, the drug, and the linker to a discussion of developmental issues such as formulations, bio-analysis, pharmacokinetic-pharmacodynamic relationships, and toxicological and regulatory challenges. It also explores pharmacoecomonics and intellectual properties, including recently issued patents and the cost analysis of drug therapy. Case studies are presented for the three ADCs that have received FDA approval: gemtuzumab ozogamicin (Mylotarg ®), Brentuximab vedotin (Adcetris ®), and ado-trastuzumab emtansine (Kadcyla ®), as well as an ADC in late-stage clinical trials, glembatumumab vedotin (CDX-011). Finally, the volume presents a perspective by the editors on the future directions of ADC development and clinical applications. Antibody-Drug Conjugates is a practical and systematic resource for scientists, professors, and students interested in expanding their knowledge of cutting-edge research in this exciting field.

Testing and Securing Web Applications CRC Press
From being Champion of Champions to one of the world's top cricket commentators to Team India's head coach, Ravi Shastri has an incomparable perspective when it comes to the game of cricket. In Stargazing: The Players in My Life, the legendary all-rounder looks back at the extraordinary talent he has encountered over the years. Who is the former Indian captain who didn't do full justice to his talent? Or that bruising bowler who went on to become a best friend? What was the most important lesson the legendary Clive Llyod taught him? How does Shastri set aside his personal bond with Virat Kohli in his role as coach? Full of never-before-revealed anecdotes, Stargazing, co-written with Ayaz Memon and featuring illustrations by Shiva Rao, offers a glimpse into how champions from across the globe have inspired one of the world's greatest ODI players and Team India's most successful Test cricket coach.

Pharmaceutical Calculations Elsevier
Clay–Polymer Nanocomposites is a complete summary of the existing knowledge on this topic, from the basic concepts of synthesis and design to their applications in timely topics such as high-performance composites, environment, and energy issues. This book covers many aspects of synthesis such as in- situ polymerization within the interlamellar spacing of the clays or by reaction of pristine or pre-modified clays with reactive polymers and prepolymers. Indeed, nanocomposites can be prepared at industrial scale by melt mixing. Regardless the synthesis method, much is said in this book about the importance of theclay pre-modification step, which is demonstrated to be effective, on many occasions, in obtaining exfoliated nanocomposites. Clay–Polymer Nanocomposites reports the background to numerous characterization methods including solid state NMR, neutron scattering, diffraction and vibrational techniques as well as surface analytical methods, namely XPS, inverse gas chromatography and nitrogen adsorption to probe surface composition, wetting and textural/structural properties. Although not described in dedicated chapters, numerous X-ray diffraction patterns of clay–polymer nanocomposites and reference materials are displayed to account for the effects of intercalation and exfoliations of layered aluminosilicates. Finally, multiscale molecular simulation protocols are presenting for predicting morphologies and properties of nanostructured polymer systems with industrial relevance. As far as applications are concerned, Clay–Polymer Nanocomposites examines structural composites such as clay–epoxy and clay–biopolymers, the use of clay–polymer nanocomposites as reactive nanocomposite fillers, catalytic clay-(conductive) polymers and similar nanocomposites for the uptake of hazardous compounds or for controlled drug release, antibacterial applications, energy storage, and more. The most comprehensive coverage of the state of the art in clay–polymer nanocomposites, from synthesis and design to opportunities and applications Covers the various methods of characterization of clay–polymer nanocomposites - including spectroscopy, thermal analyses, and X-ray diffraction Includes a discussion of a range of application areas, including biomedicine, energy storage, biofouling resistance, and more

Development, Democracy and the State Academic Press
This is a comprehensive source of information on the application of ion chromatography (IC) in the analysis of pharmaceutical drugs and biologicals. This book, with contributors from academia, pharma, the biotech industry, and instrument manufacturing, presents the different perspectives, experience, and expertise of the thought leaders of IC in a comprehensive manner. It explores potential IC applications in different aspects of product development and quality control testing. In addition, an appendix section gives information on critical physical and chromatographic parameters related to IC and information on current manufacturers of IC systems, columns, and other components.

Popular Representations of Development S. Chand Publishing
This comprehensive volume provides an update on the current state of pharmacometrics in drug development. It consists of nineteen chapters all written by leading scientists from the pharmaceutical industry, regulatory agencies and academia. After an introduction of the basic pharmacokinetic and pharmacodynamic concepts of pharmacometrics in drug development, the book presents numerous examples of specific applications that utilize pharmacometrics with modeling and simulations over a variety of therapeutic areas, including pediatrics, diabetes, obesity, infections, psychiatrics, Alzheimer’s disease, and dermatology, among others. The examples illustrate how results from all phases of drug development can be integrated in a more timely and cost-effective process. Applying pharmacometric decision tools during drug development can allow objective, data-based decision making. At the same time, the process can identify redundant or unnecessary experiments as well as some costly clinical trials that can be avoided. In addition to cost saving by expedited development of successful drug candidates, pharmacometrics has an important economic impact in drug product selection. Unsuccessful drug candidates can be identified early and discontinued without expending efforts required for additional studies and allocating limited resources. Hence, pharmacometric modeling and simulation has become a powerful tool to bring new and better medications to the patient at a faster pace and with greater probability of success.

Social Pharmacy - Health Education and Community Pharmacy Routledge
There are unique challenges in the formulation, manufacture, analytical chemistry, and regulatory requirements of low-dose drugs. This book provides an overview of this specialized field and combines formulation, analytical, and regulatory aspects of low-dose development into a single reference book. It describes analytical methodologies like dissolution testing, solid state NMR, Raman microscopy, and LC-MS and presents manufacturing techniques such as granulation, compaction, and compression. Complete with case studies and a discussion of regulatory requirements, this is a core reference for pharmaceutical scientists, regulators, and graduate students.

Systems Pharmacology and Pharmacodynamics John Wiley & Sons
Provides the foundations and principles needed for addressing the various challenges of developing smart cities Smart cities are emerging as a priority for research and development across the world. They open up significant opportunities in several areas, such as economic growth, health, wellness, energy efficiency, and transportation, to promote the sustainable development of cities. This book provides the basics of smart cities, and it examines the possible future trends of this technology. Smart Cities: Foundations, Principles, and Applications provides a systems science perspective in presenting the foundations and principles that span multiple disciplines for the development of smart cities. Divided into three parts—foundations, principles, and applications—Smart Cities addresses the various challenges and opportunities of creating smart cities and all that they have to offer. It also covers smart city theory modeling and simulation, and examines case studies of existing smart cities from all around the world. In addition, the book: Addresses how to develop a smart city and how to present the state of the art and practice of them all over the world Focuses on the foundations and principles needed for advancing the science, engineering, and technology of smart cities—including system design, system verification, real-time control and adaptation, Internet of Things, and test beds Covers applications of smart cities as they relate to smart transportation/connected vehicle (CV) and Intelligent Transportation Systems (ITS) for improved mobility, safety, and environmental protection Smart Cities: Foundations, Principles, and Applications is a welcome reference for the many researchers and professionals working on the development of smart cities and smart city-related industries.

A Textbook of Pharmaceutical Analysis John Wiley & Sons
Retaining the successful previous editions' programmed instructional format, this book improves and updates an authoritative textbook to keep pace with compounding trends and calculations – addressing real-world calculations pharmacists perform and allowing students to learn at their own pace through examples. Connects well with the current emphasis on self-paced and active learning in pharmacy schools Adds a new chapter dedicated to practical calculations used in contemporary compounding, new appendices, and solutions and answers for all problems Maintains value for teaching pharmacy students the principles while also serving as a reference for review by students in preparation for licensure exams Rearranges chapters and rewrites topics of the previous edition, making its content ideal to be used as the

primary textbook in a typical dosage calculations course for any health care professional Reviews of the prior edition: "...a well-structured approach to the topic..." (Drug Development and Industrial Pharmacy) and "...a perfectly organized manual that serves as a expert guide..." (Electric Review)

Insights from Novels, Films, Television and Social Media CRC Press

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.

The Story of a Dalit in the RSS John Wiley & Sons

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.

From Industrial Production to Food, Health, and Pharmaceutical Applications Royal Society of Chemistry

Covering topics including solvent selection, miniaturization and metrics for the evaluation of greenness this is a useful resource for researchers interested in reducing the risks and environmental impacts of analytical methods.

Value, Politics, and Knowledge in Global Biomedicine HarperCollins

The most comprehensive resource available on the many applications of portable spectrometers, including material not found in any other published work Portable Spectroscopy and Spectrometry: Volume Two is an authoritative and up-to-date compendium of the diverse applications for portable spectrometers across numerous disciplines. Whereas Volume One focuses on the specific technologies of the portable spectrometers themselves, Volume Two explores the use of portable instruments in wide range of fields, including pharmaceutical development, clinical research, food analysis, forensic science, geology, astrobiology, cultural heritage and archaeology. Volume Two features contributions by a multidisciplinary team of experts with hands-on experience using portable instruments in their respective areas of expertise. Organized both by instrumentation type and by scientific or technical discipline, 21 detailed chapters cover various applications of portable ion mobility spectrometry (IMS), infrared and near-infrared (NIR) spectroscopy, Raman and x-ray fluorescence (XRF) spectroscopy, smartphone spectroscopy, and many others. Filling a significant gap in literature on the subject, the second volume of Portable Spectroscopy and Spectrometry: Features a significant amount of content published for the first time, or not available in existing literature Brings together work by authors with assorted backgrounds and fields of study Discusses the central role of applications in portable instrument development Covers the algorithms, calibrations, and libraries that are of critical importance to successful applications of portable instruments Includes chapters on portable spectroscopy applications in areas such as the military, agriculture and feed, hazardous materials (HazMat), art conservation, and environmental science Portable Spectroscopy and Spectrometry: Volume Two is an indispensable resource for developers of portable instruments in universities, research institutes, instrument companies, civilian and government purchasers, trainers, operators of portable instruments, and educators and students in portable spectroscopy courses.

Econometrics Springer

Pharmeceutical Microbiology is one of the important components in pharmaceutical sciences to prepare and maintain the sterile preparations, control the spoilage of drugs and to study the infectious diseases. To excel in pharmacy career students definitely need comprehensive knowledge and strong foundation in pharmaceutical microbiology subject. Many books are available on general microbiology subject but few books on pharmaceutical microbiology are available for students to choose. As a teacher having 25 years teaching experience in teaching pharmaceutical microbiology and biotechnology related subjects, I have tried to deal basic microbiology, control of microorganisms, immunology, bacterial genetics, microbiological assays, pharmaceutical applications of microorganisms, industrially important microorganisms, some important diseases and miscellaneous topic under this heading. My academic learning in pharmaceutical biotechnology at postgraduate level and Ph.D levels helped me a lot to deal different topics appropriately. Syllabi of all most all Indian Universities is covered thoroughly in this book in a clear and understandable manner, so students need not refer various books for various topics in this subject. Proper care is also taken to prevent the overlap of allied topics which are not appropriate to include in microbiology syllabus.

Challenges in Green Analytical Chemistry Routledge

The concept of Internet of Things has silently existed since the late nineteenth century but in the current decade expectations and excitement has peaked. However not many have understood the profound change that it can usher in. How big this change can be and how it can transform our working!! This book aims to bring in this realization with illustrative and practical case studies with comprehensive concepts. From beginners to practitioners in the field of academics or industry, it serves as a comprehensive yet easy to comprehend source of information on the multiple facets of IoT. Simplistic but comprehensive introduction of the facets of primarily the industrial IoT Practical adoption cases explaining the Core technology stack and business applications Comprehensive view of current technologies which complete the IoT delivery ecosystem, followed by overview of IoT enabled new business models. Realistic view of how industrial firms can evolve into the next stage of maturity along with determinants influencing this transformation since manufacturing is envisioned to be a key segment to adopt and benefit from IoT. Detailed analysis of IoT benefits for the universal triad- energy management, logistics optimization and distribution channel management. A full-fledged case study on Adoption of Green manufacturing using IoT. Real world example of gauging End User perception using different models which is important for a successful adoption of IoT. A futuristic visionary view of IoT as comprehended based on evolution of technology and platforms, and finally analysis of the extremely crucial concepts of security, privacy and governance.

Applications of Ion Chromatography for Pharmaceutical and Biological Products Pharmamed Press

A single source guide to operations research (OR) techniques, this book covers emerging OR methodologies in a clear, concise, and unified manner. Building a bridge between theory and practice, it begins with coverage of fundamental models and methods such as linear, nonlinear, integer, and dynamic programming, networks, simulation, queuing, inventory, stochastic processes, and decision analysis. The book then explores emerging techniques including multiple criteria optimization, meta heuristics, robust optimization, and complexity and large scale networks. Each chapter gives an overview of a particular methodology, illustrates successful applications, and provides references to computer software availability.

Pharmocracy Springer

Recipient of the 2019 IISE Institute of Industrial and Systems Engineers Joint Publishers Book-of-the-Year Award This is a comprehensive textbook on service systems engineering and management. It emphasizes the use of engineering principles to the design and operation of service enterprises. Service systems engineering relies on mathematical models and methods to solve problems in the service industries. This textbook covers state-of-the-art concepts, models and solution methods important in the design, control, operations and management of service enterprises. Service Systems Engineering and Management begins with a basic overview of service industries and their importance in today’s economy. Special challenges in managing services, namely, perishability, intangibility, proximity and simultaneity are discussed. Quality of service metrics and methods for measuring them are then discussed. Evaluating the design and operation of service systems frequently involves the conflicting criteria of cost and customer service. This textbook presents two approaches to evaluate the performance of service systems – Multiple Criteria Decision Making and Data Envelopment Analysis. The textbook then discusses several topics in service systems engineering and management – supply chain optimization, warehousing and distribution, modern portfolio theory, revenue management, retail engineering, health systems engineering and financial services. Features: Stresses quantitative models and methods in service systems engineering and management Includes chapters on design and evaluation of service systems, supply chain engineering, warehousing and distribution, financial engineering, healthcare systems, retail engineering and revenue management Bridges theory and practice Contains end-of-chapter problems, case studies, illustrative examples, and real-world applications Service Systems Engineering and Management is primarily addressed to those who are interested in learning how to apply operations research models and methods for managing service enterprises. This textbook is well suited for industrial engineering students interested in service systems applications and MBA students in elective courses in operations management, logistics and supply chain management that emphasize quantitative analysis.

Critiquing the Kerala Model of Development Probecell Press

Adopting a practical approach, the authors provide a detailed interpretation of the existing regulations (GMP, ICH), while also discussing the appropriate calculations, parameters and tests. The book thus allows readers to validate the analysis of pharmaceutical compounds while complying with both the regulations as well as the industry demands for robustness and cost effectiveness. Following an introduction to the basic parameters and tests in pharmaceutical validation, including specificity, linearity, range, precision, accuracy, detection and quantitation limits, the text focuses on a life-cycle approach to validation and the integration of validation into the whole analytical quality assurance system. The whole is rounded off with a look at future trends. With its first-hand knowledge of the industry as well as regulating bodies, this is an invaluable reference for analytical chemists, the pharmaceutical industry, pharmaceutists, QA officers, and public authorities.