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KEY=BOOKS - ROBERSON WERNER

Industrial Pharmacy

A Comprehensive Approach

The book, Industrial Pharmacy: A comprehensive Approach has been designed and prepared to transform the fundamental knowledge about various conventional dosage forms. In fact more than 90% of the preparations available in the market are of conventional type

The Theory and Practice of Industrial Pharmacy

Lachman/Lieberman's

Essentials of Industrial Pharmacy

Springer 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.

Supply Chain Management in the Drug Industry

Delivering Patient Value for Pharmaceuticals and Biologics

Wiley This book bridges the gap between practitioners of supply-chain management and pharmaceutical industry experts. It aims to help both these groups understand the different worlds they live in and how to jointly contribute to meaningful improvements in supply-chains within the globally important pharmaceutical sector. Scientific and technical staff must work closely with supply-chain practitioners and other relevant parties to help secure responsive, cost effective and risk mitigated supply chains to compete on a world stage. This should not wait until a drug has been registered, but should start as early as possible in the development process and before registration or clinical trials. The author suggests that CMC (chemistry manufacturing controls) drug development must reset the line of sight – from supply of drug to the clinic and gaining a registration, to the building of a patient value stream. Capable processes and suppliers, streamlined logistics, flexible plant and equipment, shorter cycle times, effective flow of information and reduced waste. All these factors can and should be addressed at the CMC development stage.

The Theory and Practical Book of Industrial Pharmacy-I

The Politics of the Pharmaceutical Industry and Access to

Medicines

World Pharmacy and India

Taylor & Francis The book studies the pharmaceutical industry of India. It is one of the most successful stories of economic expansion and improvements in public health. Indian firms have made access to quality medicines possible and affordable in many developing countries. Indian pharmaceuticals are also exported on a large scale to the United States and other highly regulated markets. A wave of mergers, acquisitions and tie-ups point to growing integration between Indian firms and global pharma multinationals.

Pharmaceutical Engineering

New Age International It Is Well Known That The Applications Of Unit Operations Like Heat Transfer, Evaporation, Extraction, Mixing, Filtration And A Host Of Others Are Quite Common In The Pharmaceutical Industry, Be It In The Production Of Synthetic Drugs, Biological And Microbiological Products Or In The Manufacture Of Pharmaceutical Formulations. As Such Anyone Who Is To Look After These Manufacturing Operations Must Be Quite Knowledgeable With The Theoretical And Equipment Aspects Involved In The Relevant Unit Operations.Since A Major Involvement Of The Pharmacy Graduates Lies In The Numerous Manufacturing Operations Mentioned Above, It Is Very Much Necessary That The Subject Is Taught With A Pharmacy Orientation. There Is No Book So Far Which Has Achieved This. The Existing Books On Unit Operations Give Extensive Theory And Also Deal With A Lot Of Equipment Not Employed In The Pharmaceutical Industry. Due To A Lack Of A Pharmacy-Oriented Book In This Area, The Students And The Teachers Are Facing Difficulties In Many Ways.The Present Book Is The First One Of Its Kind On Pharmaceutical Engineering. The Special Features Of This Book Are As Follows: It Includes Theoretical And Equipment Aspects Relevant To Thepharmaceutical Industry And That Too To The Extent Needed For Pharmacy Graduates And Examples From Pharmaceutical Industry Are Quoted Extensively; Solutions To A Number Of Simpler Numerical Problems Are Given. At The End Of Each Chapter, A Large Number Of Questions, Both Theoretical And Numerical, Are Given. There Is Therefore No Doubt That The Book Will Be Of Great Use Not Only To The Students But Also To The Teachers In The Subject In India And Abroad As Well.

Industrial pharmacy

Blue Rose Publishers The purpose of this book is to introduce Pharmacy students to fundamentals of principles, practices and technologies involved in product development and also about Regulatory affairs.An excellent presentation is used in this book to demonstrate the interrelationship between laboratory scaling of pharmaceutical products, pilot plants and regulatory affairs. An extensive overview of various regulatory bodies, their guidelines and regulations governing the manufacturing and compounding of Pharmaceuticals are also explained.The present text book is made completely as per PCI syllabus to make an easy understanding for the students. Each chapter of this book is written at a level of students requirements. The objective upon completion of subject student can be able to 1. Know the process of Technology transfer from lab scale to commercial scale. 2. Know the process of pilot plant scale up of Pharmaceutical dosage form. 3. Know the various regulatory guidelines for pharmaceutical Industry. 4. Understand the approval process and regulatory requirements for drug product.

Regulatory Affairs in the Pharmaceutical Industry

Academic Press Regulatory Affairs in the Pharmaceutical Industry is a comprehensive reference that compiles all the information available pertaining to regulatory procedures currently followed by the pharmaceutical industry. Designed to impart advanced knowledge and skills required to learn the various concepts of regulatory affairs, the content covers new drugs, generic drugs and their development, regulatory filings in different countries, different phases of clinical trials, and the submission of regulatory documents like IND (Investigational New Drug), NDA (New Drug Application) and ANDA (Abbreviated New Drug Application). Chapters cover documentation in the pharmaceutical industry, generic drug development, code of Federal Regulation (CFR), the ANDA regulatory approval process, the process and documentation for US registration of foreign drugs, the regulation of combination products and medical devices, the CTD and ECTD formats, and much more. Updated reference on drug approval processes in key global markets Provides comprehensive coverage of concepts and regulatory affairs Presents a concise compilation of the regulatory requirements of different countries Introduces the fundamentals of manufacturing controls and their regulatory importance

Quality Control in the Pharmaceutical Industry

Drugs & Pharmaceutical Technology Handbook

ASIA PACIFIC BUSINESS PRESS Inc. 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.

An Introduction to Pharmaceutical Sciences

Production, Chemistry, Techniques and Technology

Elsevier 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

Multivariate Analysis in the Pharmaceutical Industry

Academic Press Multivariate Analysis in the Pharmaceutical Industry provides industry practitioners with guidance on multivariate data methods and their applications over the lifecycle of a pharmaceutical product, from process development, to routine manufacturing, focusing on the challenges specific to each step. It includes an overview of regulatory guidance specific to the use of these methods, along with perspectives on the applications of these methods that allow for testing, monitoring and controlling products and processes. The book seeks to put multivariate analysis into a pharmaceutical context for the benefit of pharmaceutical practitioners, potential practitioners, managers and regulators. Users will find a resources that addresses an unmet need on how pharmaceutical industry professionals can extract value from data that is routinely collected on products and processes, especially as these techniques become more widely used, and ultimately, expected by regulators. Targets pharmaceutical industry practitioners and regulatory staff by addressing industry specific challenges Includes case studies from different pharmaceutical companies and across product lifecycle of to introduce readers to the breadth of applications Contains

information on the current regulatory framework which will shape how multivariate analysis (MVA) is used in years to come

Pharmaceutical Preformulation and Formulation

A Practical Guide from Candidate Drug Selection to Commercial Dosage Form

CRC Press Pharmaceutical Preformulation and Formulation: A Practical Guide from Candidate Drug Selection to Commercial Dosage Form reflects the mounting pressure on pharmaceutical companies to accelerate the new drug development and launch process, as well as the shift from developing small molecules to the growth of biopharmaceuticals. The book meets the need for advanced information for drug preformulation and formulation and addresses the current trends in the continually evolving pharmaceutical industry. Topics include: Candidate drug selection Drug discovery and development Preformulation predictions and drug selections Product design to commercial dosage form Biopharmaceutical support in formulation Development The book is ideal for practitioners working in the pharmaceutical arena—including R&D scientists, technicians, and managers—as well as for undergraduate and postgraduate courses in industrial pharmacy and pharmaceutical technology.

The Theory and Practice of Industrial Pharmacy

Lippincott Williams & Wilkins

The Era of Artificial Intelligence, Machine Learning, and Data Science in the Pharmaceutical Industry

Elsevier The Era of Artificial Intelligence, Machine Learning and Data Science in the Pharmaceutical Industry examines the drug discovery process, assessing how new technologies have improved effectiveness. Artificial intelligence and machine learning are considered the future for a wide range of disciplines and industries, including the pharmaceutical industry. In an environment where producing a single approved drug costs millions and takes many years of rigorous testing prior to its approval, reducing costs and time is of high interest. This book follows the journey that a drug company takes when producing a therapeutic, from the very beginning to ultimately benefitting a patient's life. This comprehensive resource will be useful to those working in the pharmaceutical industry, but will also be of interest to anyone doing research in chemical biology, computational chemistry, medicinal chemistry and bioinformatics. Demonstrates how the prediction of toxic effects is performed, how to reduce costs in testing compounds, and its use in animal research Written by the industrial teams who are conducting the work, showcasing how the technology has improved and where it should be further improved Targets materials for a better understanding of techniques from different disciplines, thus creating a complete guide

Industrial Pharmacy II

CBS Publishers & Distributors Pvt Limited, India

Bad Pharma

How Drug Companies Mislead Doctors and Harm Patients

Macmillan Argues that doctors are deliberately misinformed by profit-seeking pharmaceutical companies that casually withhold information about drug efficacy and side effects, explaining the process of pharmaceutical data manipulation and its global consequences. By the best-selling author of Bad Science.

Chemical Engineering in the Pharmaceutical Industry

Drug Product Design, Development, and Modeling

John Wiley & Sons A guide to the important chemical engineering concepts for the development of new drugs, revised second edition The revised and updated second edition of Chemical Engineering in the Pharmaceutical Industry offers a guide to the experimental and computational methods related to drug product design and development. The second edition has been greatly expanded and covers a range of topics related to formulation design and process development of drug products. The authors review basic analytics for quantitation of drug product quality attributes,

such as potency, purity, content uniformity, and dissolution, that are addressed with consideration of the applied statistics, process analytical technology, and process control. The 2nd Edition is divided into two separate books: 1) Active Pharmaceutical Ingredients (API's) and 2) Drug Product Design, Development and Modeling. The contributors explore technology transfer and scale-up of batch processes that are exemplified experimentally and computationally. Written for engineers working in the field, the book examines in-silico process modeling tools that streamline experimental screening approaches. In addition, the authors discuss the emerging field of continuous drug product manufacturing. This revised second edition: Contains 21 new or revised chapters, including chapters on quality by design, computational approaches for drug product modeling, process design with PAT and process control, engineering challenges and solutions Covers chemistry and engineering activities related to dosage form design, and process development, and scale-up Offers analytical methods and applied statistics that highlight drug product quality attributes as design features Presents updated and new example calculations and associated solutions Includes contributions from leading experts in the field Written for pharmaceutical engineers, chemical engineers, undergraduate and graduation students, and professionals in the field of pharmaceutical sciences and manufacturing, Chemical Engineering in the Pharmaceutical Industry, Second Edition contains information designed to be of use from the engineer's perspective and spans information from solid to semi-solid to lyophilized drug products.

Chemical Engineering in the Pharmaceutical Industry, Active Pharmaceutical Ingredients

Wiley A guide to the development and manufacturing of pharmaceutical products written for professionals in the industry, revised second edition The revised and updated second edition of Chemical Engineering in the Pharmaceutical Industry is a practical book that highlights chemistry and chemical engineering. The book's regulatory quality strategies target the development and manufacturing of pharmaceutically active ingredients of pharmaceutical products. The expanded second edition contains revised content with many new case studies and additional example calculations that are of interest to chemical engineers. The 2nd Edition is divided into two separate books: 1) Active Pharmaceutical Ingredients (API's) and 2) Drug Product Design, Development and Modeling. The active pharmaceutical ingredients book puts the focus on the chemistry, chemical engineering, and unit operations specific to development and manufacturing of the active ingredients of the pharmaceutical product. The drug substance operations section includes information on chemical reactions, mixing, distillations, extractions, crystallizations, filtration, drying, and wet and dry milling. In addition, the book includes many applications of process modeling and modern software tools that are geared toward batch-scale and continuous drug substance pharmaceutical operations. This updated second edition: • Contains 30new chapters or revised chapters specific to API, covering topics including: manufacturing quality by design, computational approaches, continuous manufacturing, crystallization and final form, process safety • Expanded topics of scale-up, continuous processing, applications of thermodynamics and thermodynamic modeling, filtration and drying • Presents updated and expanded example calculations • Includes contributions from noted experts in the field Written for pharmaceutical engineers, chemical engineers, undergraduate and graduate students, and professionals in the field of pharmaceutical sciences and manufacturing, the second edition of Chemical Engineering in the Pharmaceutical Industry focuses on the development and chemical engineering as well as operations specific to the design, formulation, and manufacture of drug substance and products.

The Pharmaceutical Industry

A Guide to Historical Records

Routledge The pharmaceutical industry has changed beyond all recognition in the past 100 years. The modern industry is constantly in the news as new breakthroughs in medical treatment are announced, often provoking ethical and social debates about the implications of new technologies. This volume facilitates the study of the industry by providing information on the present location of pharmaceutical archives. The core of the book consists of a business-by-business guide to the industry's records. Each entry includes a brief history of the company, a summary of its surviving archives and a bibliography of related publications. Similar entries exist for trade associations and schools of pharmacy associated with the industry and there are two appendices listing small collections of records held and relevant public records. The historical compendium is supplemented by three introductory essays, written by leading academics in the field, outlining the history of the industry and describing the nature and uses of the archival records which it has created. These essays are supplemented by a select chronology of pharmaceutical legislation and a select bibliography of histories relating to the pharmaceutical industry in general. A users guide helps readers understand how the business entries were constructed and is supplemented by a glossary of terms used in this book As such, this book will no doubt prove an invaluable resource to researchers undertaking comparative studies of the pharmaceutical industry, the history of medicine and the retailing of medical drugs.

Practical Manual for Industrial Pharmacy I

As per Syllabus prescribed by PCI FOR B.Pharm V sem

OrangeBooks Publication This book is conceived to reflect the practical aspects of Industrial Pharmacy. The contents of this book are an integral part of the syllabi prescribed by Pharmacy Council of India and Indian universities. This practical book covers whole of the experimental component specified in the syllabus. Authors have made special attempts to cover all aspects ranging from preformulation studies, dosage form design, product manufacturing process and evaluation. This book only discusses relevant information and has been written in simple, straightforward language. The main motivation behind this book was to cover all the important practical aspects of Industrial Pharmacy I under one umbrella at an affordable price to encourage students to read and learn.

Six Sigma in the Pharmaceutical Industry

Understanding, Reducing, and Controlling Variation in Pharmaceuticals and Biologics

CRC Press The pharmaceutical industry is under increasing pressure to do morewith less. Drug discovery, development, and clinical trial costs remain high and are subject to rampant inflation. Ever greater regulatory compliance forces manufacturing costs to rise despite social demands for more affordable health care. Traditional methodologies are failing and the industry needs to find new and innovative approaches for everything it does. Six Sigma in the Pharmaceutical Industry:Understanding, Reducing, and Controlling Variation in Pharmaceuticals and Biologics is the first book to focus on the building blocks of understanding and reducing variation using the Six Sigma method as applied specifically to the pharmaceutical industry. It introduces the fundamentals of Six Sigma, examines control chart theory and practice, and explains the concept of variation management and reduction. Describing the approaches and techniques responsible for their own significant success, the authors provide more than just a set of tools, but the basis of a complete operating philosophy. Allowing other references to cover the structural elements of Six Sigma, this book focuses on core concepts and their implementation to improve the existing products and processes in the pharmaceutical industry. The first half of the book uses simple models and descriptions of practical experiments to lay out a conceptual framework for understanding variation, while the second half introduces control chart theory and practice. Using case studies and statistics, the book illustrates the concepts and explains their application to actual workplace improvements. Designed primarily for the pharmaceutical industry, Six Sigma in the Pharmaceutical Industry:Understanding, Reducing, and Controlling Variation in Pharmaceuticals and Biologics provides the fundamentals of variation management and reduction in sufficient detail to assist in transforming establishe

Remington

The Science and Practice of Pharmacy

Academic Press Remington: The Science and Practice of Pharmacy, Twenty Third Edition, offers a trusted, completely updated source of information for education, training, and development of pharmacists. Published for the first time with Elsevier, this edition includes coverage of biologics and biosimilars as uses of those therapeutics have increased substantially since the previous edition. Also discussed are formulations, drug delivery (including prodrugs, salts, polymorphism. With clear, detailed color illustrations, fundamental information on a range of pharmaceutical science areas, and information on new developments in industry, pharmaceutical industry scientists, especially those involved in drug discovery and development will find this edition of Remington an essential reference. Intellectual property professionals will also find this reference helpful to cite in patents and resulting litigations. Additional graduate and postgraduate students in Pharmacy and Pharmaceutical Sciences will refer to this book in courses dealing with medicinal chemistry and pharmaceutics. Contains a comprehensive source of principles of drug discovery and development topics, especially for scientists that are new in the pharmaceutical industry such as those with trainings/degrees in chemistry and engineering Provides a detailed source for formulation scientists and compounding pharmacists, from produg to excipient issues Updates this excellent source with the latest information to verify facts and refresh on basics for professionals in the broadly defined pharmaceutical industry

Statistical Applications for Chemistry, Manufacturing and Controls (CMC) in the Pharmaceutical Industry

Springer This book examines statistical techniques that are critically important to Chemistry, Manufacturing, and Control (CMC) activities. Statistical methods are presented with a focus on applications unique to the CMC in the pharmaceutical industry. The target audience consists of statisticians and other scientists who are responsible for performing statistical analyses within a CMC environment. Basic statistical concepts are addressed in Chapter 2 followed by applications to specific topics related to development and manufacturing. The mathematical level assumes

an elementary understanding of statistical methods. The ability to use Excel or statistical packages such as Minitab, JMP, SAS, or R will provide more value to the reader. The motivation for this book came from an American Association of Pharmaceutical Scientists (AAPS) short course on statistical methods applied to CMC applications presented by four of the authors. One of the course participants asked us for a good reference book, and the only book recommended was written over 20 years ago by Chow and Liu (1995). We agreed that a more recent book would serve a need in our industry. Since we began this project, an edited book has been published on the same topic by Zhang (2016). The chapters in Zhang discuss statistical methods for CMC as well as drug discovery and nonclinical development. We believe our book complements Zhang by providing more detailed statistical analyses and examples.

Learning from Experience

Memories of an Industrial Pharmacist

Pharmamed Press Dr. Potdar has been eclectic in harvesting up the illustrations from his career. Immense and wide ranging exposure to industrial life, these instances could be of colossal significance to bourgeoning as well as young Pharmacists. Erudite Potdar has pragmatically analysed these occasions for the benefit of Pharmacist Community. In today's very fluid and muddle scenario hovering over the Pharma Industry, these experiences could be a light house for those who would like to flourish. Technological advances/affluence of plethora of available knowledge if blended with right learning from genuine guidance as elaborate as in this could be a wonderful formulation of a Pharmacist.

Unit Processes in Pharmacy

Pharmaceutical Monographs

Elsevier Pharmaceutical Monographs, Volume 7: Unit Processes in Pharmacy provides a survey of the industrial processes used in the large-scale preparation of pharmaceuticals. This book examines the movement of fluids, the transfer of heat, mass transfer, and the properties of powers. Organized into two parts encompassing 14 chapters, this book begins with an overview of the analysis of the flow of fluids through a permeable bed of solids that is widely applied in filtration, leaching, and several other processes. This text then examines the transfer of heat from one fluid to another across a solid boundary. Other chapters consider the movement of relatively large units of gas, called eddies, from one region to another that causes mixing of the components of the gas. This book discusses as well the principle of filtration. The final chapter deals with the scale of segregation and the intensity of segregation. This book is a valuable resource for undergraduate students of pharmacy and allied subjects.

Essentials of Industrial Pharmacy

Springer Nature

Sick Money

The Truth About the Global Pharmaceutical Industry

Canongate Books THE PHARMACEUTICAL INDUSTRY IS BROKEN From the American hedge fund manager who drastically hiked the price of an AIDS pill to the children’s cancer drugs left intentionally to expire in a Spanish warehouse, the signs of this dysfunction are all around. A system built to drive innovation and improve patient care has been distorted to maximise profits. In Sick Money, the investigative journalist who exposed a billion-pound British price-hiking scandal goes inside the global battle over high drug prices. From secret deals to patients forced to turn to the black market, Billy Kenber reveals how medicines have become nothing more than financial assets. He offers a diagnosis of an industry in crisis - and a prescription for how it could be fixed.

Government, Big Pharma, and The People

A Century of Dis-Ease

CRC Press Pharmaceuticals constitute a relatively small share of the total Health Care expenditure in most developed economies, and yet they play a critical role in the ongoing debate over how best to advance, improve, and afford Health Care. Despite this, and perhaps because of this, the industry has had, for many years, an outsized claim to fame and controversy, praise and criticisms, and support and condemnation. Unfortunately, many participants in the debate do not fully understand the complexities of the industry and its role in the overall Health Care system. The analytical tools of economics provide a strong foundation for a better understanding of the dynamics of the pharmaceutical industry, its contribution to Health and Health Care, and its dual and often conflicting priorities of affordability and innovation, as well as the various Private and Public Policy initiatives directed at the sector. Everyone is affected by Big Pharma and the products they produce. At the Drug store, the physician’s office, in front of the television, in

everyday conversations, Drugs are a part of our lives. Society shapes our values toward Drugs and Drugs shape society. ("The Pill" and minor tranquilizers are good examples.) And, of course, the way Congress deliberates and Big Pharma responds has a huge impact on how Drugs affect our lives. This book is well-researched on the subject of the pharmaceutical industry, its struggles with Government, and its relationship to the consumer from the early twentieth century until the present. The Dynamic Tension between the three participants – Government, Big Pharma, and the People – is described and explained to lead to an understanding of the controversies that rage today. The author describes how the Government, its many investigatory efforts, and the ultimate legislative results affect the industry and the consequences of their activities are explored in light of their effects on other players, including the patients and consumers who rely on both Government and Big Pharma for their well-being and who find sometimes unexpected consequences while giving special attention to the attitudes, beliefs, and misadventures of less-than-optimal Drug use. Stakeholders are identified with physicians as a major focus, as well as describing the significance of prescriptions as social objects and the processes by which physicians make choices on behalf of their patients. The author ties it all together with how Big Pharma affects and is affected by each of these groups. The author utilizes his 50-plus years' experience as an academic, practicing pharmacist, and Big Pharma employee to describe the scope of the pharmaceutical industry and how it affects us on a daily basis, concluding with an inside look at Big Pharma and how regulations, marketing, and the press have affected their business, both good and bad.

Making Medicines in Africa

The Political Economy of Industrializing for Local Health

Springer This book is open access under a CC-BY license. The importance of the pharmaceutical industry in Sub-Saharan Africa, its claim to policy priority, is rooted in the vast unmet health needs of the sub-continent. Making Medicines in Africa is a collective endeavour, by a group of contributors with a strong African and more broadly Southern presence, to find ways to link technological development, investment and industrial growth in pharmaceuticals to improve access to essential good quality medicines, as part of moving towards universal access to competent health care in Africa. The authors aim to shift the emphasis in international debate and initiatives towards sustained Africa-based and African-led initiatives to tackle this huge challenge. Without the technological, industrial, intellectual, organisational and research-related capabilities associated with competent pharmaceutical production, and without policies that pull the industrial sectors towards serving local health needs, the African sub-continent cannot generate the resources to tackle its populations' needs and demands. Research for this book has been selected as one of the 20 best examples of the impact of UK research on development. See http://www.ukcds.org.uk/the-global-impact-of-uk-research for further details.

Global Supply Chains in the Pharmaceutical Industry

IGI Global In a rapidly growing global economy, where there is a constant emergence of new business models and dynamic changes to the business ecosystem, there is a need for the integration of traditional, new, and hybrid concepts in the complex structure of supply chain management. Within the fast-paced pharmaceutical industry, product strategy, life cycles, and distribution must maintain the highest level of agility. Therefore, organizations need strong supply chain capabilities to profitably compete in the marketplace. Global Supply Chains in the Pharmaceutical Industry provides innovative insights into the efforts needed to build and maintain a strong supply chain network in order to achieve efficient fulfillment of demand, drive outstanding customer value, enhance organizational responsiveness, and build network resiliency. This publication is designed for supply chain managers, policymakers, researchers, academicians, and students, and covers topics centered on economic cycles, sustainable development, and new forces in the global economy.

The Price of Health

The Modern Pharmaceutical Industry and the Betrayal of a History of Care

Pegasus Books From "pharma bros" to everday household budgets, just how did the pharmaceutical industry betray its own history—and how can it return to it's tradition of care? One in five Americans has skipped vital medicines simply because of the cost. The modern pharmaceutical industry is arguably the most highly regulated enterprise—and cost-inflated—in the United States, perhaps the world. But that was not always the case. How did we get into this nightmare? As a global pandemic rears its ugly head and we desperately work towards for a vaccine and mitigating treatments, this is perhaps the first time in history when questions about drug pricing are discussed openly and honestly. The Price of Health is the alarming story of how the pharmaceutical industry destroyed its reputation in a remarkably short period of time, betraying its own history. But, more hopefully, this is also the story of how we can still right the ship. Kinch and Weiman reveal how medicines have been discovered, developed, distributed, and paid for throughout the years, providing new clarity on how these changes have contributed to rising costs. Some of the individual activities and system reforms will be familiar, but the implications of these actions for the people consuming

those medicines are surprising and at times shocking. Like so much else in human history, the history of pharmaceuticals is comprised mostly of well-intended and even noble individuals. Each contributed to the formation of structures meant to improve the quality and quantity of life. And yet these systems originally created to do good have been manipulated in ways that have often been contrary to the motivations of their creators. Only by understanding this disconnect can we better tackle the underlying problems of the industry head on, preventing future pandemics to come.

Remington

The Science and Practice of Pharmacy

Academic Press Remington: The Science and Practice of Pharmacy, Twenty Third Edition, offers a trusted, completely updated source of information for education, training, and development of pharmacists. Published for the first time with Elsevier, this edition includes coverage of biologics and biosimilars as uses of those therapeutics have increased substantially since the previous edition. Also discussed are formulations, drug delivery (including prodrugs, salts, polymorphism. With clear, detailed color illustrations, fundamental information on a range of pharmaceutical science areas, and information on new developments in industry, pharmaceutical industry scientists, especially those involved in drug discovery and development will find this edition of Remington an essential reference. Intellectual property professionals will also find this reference helpful to cite in patents and resulting litigations. Additional graduate and postgraduate students in Pharmacy and Pharmaceutical Sciences will refer to this book in courses dealing with medicinal chemistry and pharmaceutics. Contains a comprehensive source of principles of drug discovery and development topics, especially for scientists that are new in the pharmaceutical industry such as those with trainings/degrees in chemistry and engineering Provides a detailed source for formulation scientists and compounding pharmacists, from produg to excipient issues Updates this excellent source with the latest information to verify facts and refresh on basics for professionals in the broadly defined pharmaceutical industry

Pharmaceutical Process Development

Current Chemical and Engineering Challenges

Royal Society of Chemistry This book is aimed at both graduates and postgraduates interested in a career in the pharmaceutical industry by informing them about the breadth of the work carried out in chemical research and development departments. It is also of great value to academics wishing to advise students on the merits of careers in chemical development over discovery.

Developing Solid Oral Dosage Forms

Pharmaceutical Theory and Practice

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

Cost Accounting for the Pharmaceutical Industry

Report of the Costing Committee Appointed by the

Council of The Association of British Pharmaceutical Industry

Understanding Pharma

The Professional's Guide to how Pharmaceutical and Biotech Companies Really Work

Pharmaceutical Press

Artificial Intelligence in Pharmaceutical Sciences (Drug Discovery)

Industry 4.0 - Disruptive Innovations in Healthcare Industries

The book has been designed to cover all the basic topics and examples related to disruptive innovations and industry 4.0 in general and in particular, pharmaceutical sciences and other branches of healthcare sectors like medical and diagnostic. Major disruption is due to the advent of Artificial Intelligence, Machine Learning, Deep Learning, Blockchain, 3D Organ Printing and others. The book is ahead of its time in the sense that in entire country there is no such subject which is being taught in pharmacy, nursing or medical courses. By the time it becomes part of syllabus, this book is among the best resources in a compiled format for healthcare professionals, academicians and students of pharmacy besides those want to learn from the basic; as content beyond syllabus tool. All the content has been compiled after referring and mining hundreds of latest and original first-hand updates from inventors, experts, organizations (who/which are engaged in drug discovery research directly or indirectly through Artificial Intelligence) like Insilico, Google, Microsoft, INVIDIA, Novartis, Intel, IBM etc. All topics are explained in very simple language with clear aim and outcome using flow charts, tables and infographics of original creators. Professionals from medical, pharmacy, nursing and dental and medical imaging arena will find this book very useful. Students of all levels will find book very beneficial as few topics have been just touched, few have been shallow in complexity and rest are covered in detail. Full precautions have been exercised to address the needs of biology group students so that they can easily and effortlessly understand the subject matter of this book, which requires mathematical skills to grasp the basics of AI. Recent examples from various corporates, universities and daily life have found place in this unique book in a very explicit manner. In initial two chapters, background information has been explained with various comparison and examples, while third chapter focuses on application of Artificial Intelligence in drug discovery, repurposing, in advance, faster and accurate diagnosis of diseases. Last chapter throws a light on insights pertaining to ethical issues in AI research; and laws related to intellectual property rights on products/services borne owing to success (partly or purely and fully) derived by machines or devices through AI programs/algorithms. At the end of each chapter, questions have been added for the readers, mainly students.

A TEXT BOOK OF GENERAL AND DISPENSING PHARMACY

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