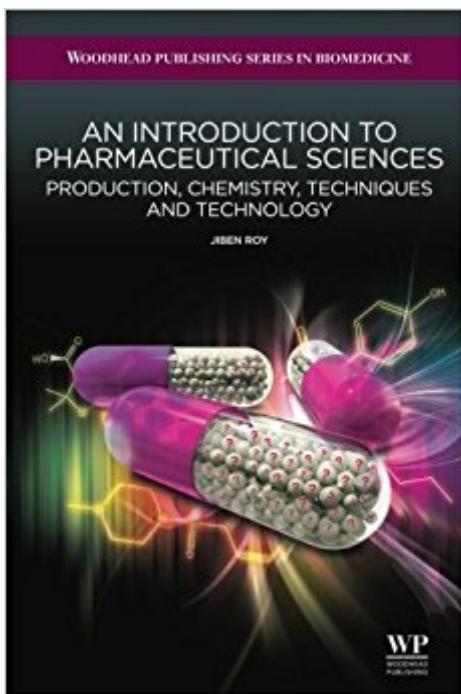


The book was found

# An Introduction To Pharmaceutical Sciences: Production, Chemistry, Techniques And Technology (Woodhead Publishing Series In Biomedicine)



## **Synopsis**

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.

## **Book Information**

Series: Woodhead Publishing Series in Biomedicine (Book 18)

Paperback: 446 pages

Publisher: Woodhead Publishing; 1 edition (August 8, 2011)

Language: English

ISBN-10: 1907568522

ISBN-13: 978-1907568527

Product Dimensions: 6.2 x 0.9 x 9.2 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,791,666 in Books (See Top 100 in Books) #82 in Books > Medical Books > Pharmacology > Reference #152 in Books > Business & Money > Industries > Pharmaceutical & Biotechnology #296 in Books > Textbooks > Medicine & Health Sciences > Medicine > Biotechnology

## Customer Reviews

Dr Jiben Roy is Associate Professor, Department of Sciences and Mathematics, Mississippi University for Women. He has a long and unique experience and has established an impressive track record in teaching, research and working in the pharmaceutical industry. In addition, his academic qualifications and work experiences have been enriched with international experience. Dr Roy had his undergraduate education from Bangladesh, PhD from Canada, and a post-doctoral fellowship in the USA; teaching experiences from Bangladesh, Australia and USA; pharmaceutical work experience in both bulk drugs and formulations from Bangladesh. He was the project director and principal scientist of Bangladesh first antibiotic raw material manufacturing unit, Gonoshasthaya Antibiotics Ltd and later on he joined Square Pharmaceutical Ltd. As head of R & D and technical services. He worked with many international consultants and visited many pharmaceutical companies in India, China, Netherlands, Germany and Switzerland. Dr Roy has over four dozen publications, and has co-edited a special issue of journal, current medicinal chemistry.

[Download to continue reading...](#)

An Introduction to Pharmaceutical Sciences: Production, Chemistry, Techniques and Technology (Woodhead Publishing Series in Biomedicine) Therapeutic Risk Management of Medicines (Woodhead Publishing Series in Biomedicine) Introduction to the Pharmaceutical Sciences: An Integrated Approach (Pandit, Introduction to the Pharmaceutical Sciences) The Coal Handbook: Towards Cleaner Production: Volume 1: Coal Production (Woodhead Publishing Series in Energy) The Coal Handbook: Towards Cleaner Production: Volume 2: Coal Utilisation (Woodhead Publishing Series in Energy) Handbook of Waste Management and Co-Product Recovery in Food Processing (Woodhead Publishing Series in Food Science, Technology and Nutrition) Advances in Concentrating Solar Thermal Research and Technology (Woodhead Publishing Series in Energy) Automation and Validation of Information in Pharmaceutical Processing (Drugs and the Pharmaceutical Sciences) Joint Replacement Technology (Woodhead Publishing Series in

Biomaterials) Transport Processes in Pharmaceutical Systems (Drugs and the Pharmaceutical Sciences) Pharmaceutical Skin Penetration Enhancement (Drugs and the Pharmaceutical Sciences) Pharmaceutical Particulate Carriers: Therapeutic Applications (Drugs and the Pharmaceutical Sciences) The Clinical Audit in Pharmaceutical Development (Drugs and the Pharmaceutical Sciences) Polymorphism in Pharmaceutical Solids (Drugs and the Pharmaceutical Sciences) Pharmaceutical Process Validation, Second Edition (Drugs and the Pharmaceutical Sciences) KINDLE PUBLISHING: How To Build A Successful Self-Publishing Business With Kindle and Createspace. A Detailed, Step-By-Step Guide To The Entire Process (Kindle Publishing Series Book 1) Modern Radio Production: Production Programming & Performance (Wadsworth Series in Broadcast and Production) Structural Dynamics of Earthquake Engineering: Theory and Application Using Mathematica and Matlab (Woodhead Publishing Series in Civil and Structural Engineering) Handbook of Organic Materials for Optical and (Opto)Electronic Devices: Properties and Applications (Woodhead Publishing Series in Electronic and Optical Materials) Fracture and Fatigue of Welded Joints and Structures (Woodhead Publishing Series in Welding and Other Joining Technologies)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)