

## Aulton Pharmaceuticals Fourth Edition

The fifth edition of Pharmaceutical Practice has been totally overhauled and restructured to bring the contents completely up to date and to reflect emerging new roles for pharmacists both within the traditional employment areas of hospital and community pharmacy, as well as other developing roles supporting the public health agenda, governance, risk management, prescribing and pharmacoconomics. It covers a wide range of subjects relevant to pharmacy practice, including communication skills, managing a business, quality assurance, dispensing, calculations, packaging, storage and labeling of medicines, sterilization, prescriptions, hospital-based services, techniques and treatments, adverse drug reactions, cost-benefit, and medicines management. Each chapter begins with Study Point and ends with Key Points to reinforce learning. Appendices include medical abbreviations, Latin terms and abbreviations, systems of weights and measurements, presentation skills and key references. Self-assessment questions for more complex areas of pharmaceutical practice. New chapters on control of medicines; control of health professionals and their staff; ethics in practice; Standard Operating Procedures; structure and organisation of pharmacy; veterinary pharmacy; appliances; public health, and pharmacy interventions. New editor on the team, Jennie Watson. Many new contributors, comprising practising pharmacists, teachers of pharmacy, and pharmacists with joint appointments between hospital/community pharmacy and universities.

Dr Cho reveals the secrets which enabled him to pastor the world's largest church.

This book provides the physicochemical background to the design and use of pharmaceutical dosage forms. It goes beyond the introductory aspects of the subject to show how basic physicochemical principles are essential to an understanding of every aspect of drug action, from the dosage form to the site of action in the body. This is not a textbook of physical chemistry for pharmacists, but is a book which bridges the gap between basic first-year physical chemistry and the more applied practice of later years. This extensively revised second edition includes much new material, illustrations and references to take into account recent scientific developments and curriculum changes.

Pharmacy OSCEs is the only pharmacy-specific OSCE revision guide. This easy-to-use book covers the key competencies that will be tested during your Objective Structured Clinical Examinations whether you are still studying or in practice. Written in a concise and accessible way, all types of situations are covered from responding to a specific symptom to solving calculations. The scenarios read like tasks at an OSCE station and are accompanied by: (i) Learning objectives; (ii) Questions and answers; (iii) Feedback and revision points; (iv) Key references and further reading. The examples vary in complexity, ranging from early undergraduate years through to postgraduate. With over 70 practice scenarios, this book will support you throughout your training and ensure your best performance on the day of the exam.

The suspension dosage form has long been used for poorly soluble active ingredients for various therapeutic indications. Development of stable suspensions over the shelf life of the drug product continues to be a challenge on many fronts. A good understanding of the fundamentals of disperse systems is essential in the development of a suitable pharmaceutical suspension. The development of a suspension dosage form follows a very complicated path. The selection of the proper excipients (surfactants, viscosity imparting agents etc.) is important. The particle size distribution in the finished drug product dosage form is a critical parameter that significantly impacts the bioavailability and pharmacokinetics of the product. Appropriate analytical methodologies and instruments (chromatographs, viscometers, particle size analyzers, etc.) must be utilized to properly characterize the suspension formulation. The development process continues with a successful scale-up of the manufacturing process. Regulatory agencies around the world require clinical trials to establish the safety and efficacy of the drug product. All of this development work should culminate into a regulatory filing in accordance with the regulatory guidelines. Pharmaceutical Suspensions, From Formulation Development to Manufacturing, in its organization, follows the development approach used widely in the pharmaceutical industry. The primary focus of this book is on the classical disperse system – poorly soluble active pharmaceutical ingredients suspended in a suitable vehicle.

Provides a concise yet detailed resource covering all aspects of pharmaceuticals, from the scientific fundamentals to the dosage forms and drug delivery systems to drug product analyses. Assists with integrating the science of pharmacy into practice. Chapters from the original parent text Remington: The Science and Practice of Pharmacy 22nd edition were specifically selected to create this new edition. The text pulls heavily from the Pharmaceuticals and Pharmaceutical Dosage Forms sections. Various delivery systems and dosage forms are covered as well as parenterals, sterilization processes, and sterile compounding. One chapter addresses pharmaceutical excipients and another discusses pharmaceutical packaging. Pharmaceutical analysis, product characterization, quality control, stability, bioavailability, and dissolution are also covered. Fundamental scientific concepts including thermodynamics, ionic solutions and electrolyte equilibria, tonicity, chemical kinetics, rheology, complex formation and interfacial phenomenon are presented. The text also provides an introduction to pharmacokinetics and pharmacodynamics and the principles of absorption, distribution, metabolism and excretion. In addition, some introductory concepts on drug discovery and drug product approval as well as information resources in pharmacy and the pharmaceutical sciences are presented.

The incorporation of functional ingredients in a given food system and the processing and handling of such foods are associated with nutritional challenges for their healthy delivery. The extreme sensitivity of some components cause significant loss of product quality, stability, nutritional value and bioavailability, and the overall acceptability of the food product. Consequently, encapsulation has been successfully used to improve stability and bioavailability of functional ingredients. Encapsulation is one example of technology that has the potential to meet the challenge of successfully incorporating and delivering functional ingredients into a range of food types. The book will cover topics about 1) Characterization of novel polymers and their use in encapsulation processes. 2) Stability of nutraceutical compounds encapsulated with novel polymers. 3) Application of encapsulated compounds with novel polymers in functional food systems. This book provides a detailed overview of technologies for preparing and characterisation of encapsulates for food active ingredients using modified polymers. The use of modified polymers as coating materials it is a field that still needs study. The book is aimed to inform students and researchers in the areas of food science and food technology, and professionals in the food industry.

This textbook considers the role of basic pharmaceuticals in determining or modifying clinical outcomes and in explaining the behavior of medicines in the body, including adverse reactions due to formulations and excipients. An Introduction to Clinical Pharmaceuticals covers recent developments such as personalised therapies and nanotechnology. All of the principles underpinning

clinical pharmaceutics are supported using relevant examples from recent literature and clinical case studies, including issues of: formulation and excipients; surface tension; rheology; solubility; crystallisation and precipitation; aggregation; absorption.

Examples and implications of each phenomenon are discussed with a reminder of the underlying pharmaceutics.

An internationally acclaimed reference work recognized as one of the most authoritative and comprehensive sources of information on excipients used in pharmaceutical formulation with this new edition providing 340 excipient monographs. Incorporates information on the uses, and chemical and physical properties of excipients systematically collated from a variety of international sources including: pharmacopeias, patents, primary and secondary literature, websites, and manufacturers' data; extensive data provided on the applications, licensing, and safety of excipients; comprehensively cross-referenced and indexed, with many additional excipients described as related substances and an international supplier's directory and detailed information on trade names and specific grades or types of excipients commercially available.

Pharmaceutical science deals with the whole spectrum of drug development from start to finish. There are many different facets to the pharmaceutical industry, from initial research to the finished product, including the equipment used, trials performed, and regulations that must be followed. Presenting an overview of all of these different aspects, the Encyclopedia of Pharmaceutical Science and Technology, Fourth Edition is a must-have reference guide for all laboratories and libraries in the pharmaceutical field. Bringing together leaders from every specialty related to pharmaceutical science and technology, this is the single-source reference at the forefront of pharmaceutical R&D. The strength of this work is not only its breadth but also the caliber of contributing writers, all experts in their field, writing on all aspects of pharmaceutical science and technology. The fourth edition offers 29 new chapters ranging from biomarkers, computational chemistry, and contamination control to high-throughput screening, orally disintegrating tablets, and quality by design. The encyclopedia details best practices of equipment used, methods for manufacturing, options for packaging, and routes for drug delivery. The volumes also provide a thorough understanding of the choices behind each method. In addition, the regulations, safety aspects, patent guidance, and methods of analysis are presented. Key Areas Covered: Analytics Biomarkers Dosage forms Drug delivery Formulation Informatics Manufacturing Packaging Processing Regulatory affairs Systems validation This is an authoritative reference source for those practicing in any area of pharmaceutical science and technology, enabling the pharmaceutical specialist and novice alike to keep abreast of developments in this constantly evolving and highly competitive field. \* Online version coming soon. Contact us to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367 / (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062 / (E-mail) online.sales@tandf.co.uk

Long established as a trusted core text for pharmaceutics courses, this gold standard book is the most comprehensive source on pharmaceutical dosage forms and drug delivery systems available today. Reflecting the CAPE, APhA, and NAPLEX® competencies, Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems covers physical pharmacy, pharmacy practice, pharmaceutics, compounding, and dosage forms, as well as the clinical application of the various dosing forms in patient care. This Tenth Edition has been fully updated to reflect new USP standards and features a dynamic new full color design, new coverage of prescription flavoring, and increased coverage of expiration dates.

Introduction to Pharmaceutics and its Scope - Development of a New Drug - Introduction to Dosage Forms of Drugs - History and Development of Profession of Pharmacy - Introduction to Pre-formulation - Biopharmaceutics - Good Manufacturing Practices - Introduction to Pre-formulation - Biopharmaceutics - Good Manufacturing Practices - Introduction to Alternative Systems of Medicines - Drug Delivery Systems - Biological Products - Packaging of Pharmaceuticals - Bibliography - Index

Stressing the theory involved in formulating suspensions, emulsions, and colloidal drug products, this Second Edition of a well-received reference text highlights typical formulations, the avoidance of formulation pitfalls, and compliance with established regulatory principles. This Fourth Edition has been thoroughly revised and updated to take account of international developments in pharmaceutical chemistry and to maintain the position of Practical Pharmaceutical Chemistry as the leading University textbook in the field of pharmaceutical analysis and quality control. Part 2 deals with physical techniques of analysis for more advanced courses. It gives a broad coverage of the most widely used techniques in quantitative chromatography. The treatment of spectroscopy and radiopharmaceuticals has also been increased. There are additional chapters on the contribution and role of physical methods of analysis in the various stages of drug development; and a series of workshop-style exercises, illustrating the application of spectroscopic techniques in structural elucidation and verification of identity. Users of the two volumes will welcome the internationalisation of the text, with examples based on drugs and dosage forms that are widespread and in common use in human medicine in Britain, continental Europe and North America. Additionally there is some reference to veterinary pharmaceuticals where they provide appropriate examples.

From a review of the previous edition: 'For all the pharmacy students out there part of your pharmacy degree will be to study formulation design and pharmaceutics. This is the holy grail of pharmaceutical technology books. The text reads well and introduces difficult concepts in a more easy-to-understand way, it is definitely worth the money to help you get through the module, if you're doing a research project in pharmaceutical design then this would also be an excellent buy...This is essential for passing exams and developing professional competence.' This is the best known text on pharmaceutics. Its strength lies mainly in being a complete course in one book. Reviewers consistently praise its comprehensiveness and its extremely high quality-quality content. Pharmaceutics is one of the most diverse subject areas in pharmaceutical science and an understanding of it is vital for all pharmacists and scientists involved in converting drugs to medicines that can be safely delivered to a patient. The editorial and author team deliver a tour de force of accessibility, coverage and currency in this new edition of a world-class textbook. Relevant chemistry covered throughout Reflects current and future use of biotechnology products throughout Covers ongoing changes in our understanding of biopharmaceutics, certain areas of drug delivery and the significance of the solid state Includes the science of formulation and drug delivery Designed and written for newcomers to the design of dosage forms Key points boxes throughout Summaries at the end of each chapter Fully updated throughout, with particular focus on delivery of biopharmaceuticals, nanotechnology and nanomedicines, parenteral and ocular drug delivery mechanisms. Now comes with online access on StudentConsult. This comprehensive book covers a wide range of subjects relevant to pharmacy practice, including communication skills, managing a business, quality assurance, dispensing, calculations, packaging, storage and labeling of medicines, sterilization, prescriptions, hospital-based services, techniques and treatments, adverse drug reactions, pharmacoconomics, and medicines management. Features useful appendices on medical abbreviations, pharmaceutical Latin terms, weights and measures, and presentation skills. This is a core text for pharmacy practice and dispensing modules of the pharmacy curriculum Covers key exam material for essential review and test preparation Features a user-friendly design with clear headings, chapter summaries, helpful boxes, and key points Text restructured with 14 new or radically revised chapters. All text revised in light of current pharmaceutical practice. New design using two colours.

Readers will find this book to be the most comprehensive source on pharmaceutical dosage forms and drug delivery systems.

Physical Pharmacy Capsules highlight key concepts with boxes, providing easy reference. Reflecting traditional pharmaceutics pedagogy, the new edition is organized by dosage form rather than by route of administration

Corresponding to the chapters in Pharmacology: Principles and Applications, 3rd Edition, this workbook provides practice exercises that will build your skills with basic terminology, math, dosage calculation, medication administration and more.

Developed by Pharmacology authors Eugenia M. Fulcher, Robert M. Fulcher, and Cathy Dubeansky Soto, this workbook makes it easier than ever to learn and apply pharmacology principles. Math exercises provide additional practice and review of calculations and concepts. Drug calculation exercises offer additional practice with measurement systems and dosage calculations. Critical Thinking exercises challenge you to apply what you've learned to a variety of realistic situations. Expanded exercises throughout the book include several new math exercises.

A comprehensive textbook covering the design of dosage forms and all aspects of drug delivery systems. 'Pharmaceutics' in its broadest sense is the 'art of the apothecary' or, in simple terms, pharmaceutical preparations. It remains a diverse subject in the pharmacy curriculum, encompassing design of drugs, their manufacture, and the elimination of micro-organisms from the products. This book encompasses all those areas and pays particular attention to the design of dosage forms and their manufacture.

The third edition of this introductory text covers the factors which influence the release of the drug from the drug product and how the body handles the drug. A stronger focus has been placed on the basics with clear explanations and illustrated examples. There is also more information on statistics and population pharmacokinetics and new chapters on drug distribution, computer applications, enzyme kinetics and pharmacokinetics models.

Thoroughly updated and expanded, this new Third Edition provides the latest information on dosage, forms, film defects, and polymer characterization. Written by renowned leaders in the field, *Aqueous Polymeric Coatings for Pharmaceutical Dosage Forms* is easily the most comprehensive book available on the market today. New to the Third Edition: the interaction of drugs with functional polymers the influence of processing parameters on coating quality the stabilization of polymeric film coats plasticizers and their applications in pharmaceutical coatings adhesion of polymeric films to solid substrates basic properties of latex and pseudolatex colloidal dispersions Key topics included: polymer interactions with drugs and excipients physical aging of polymeric films a complete overview and in-depth analysis of recent advances in the field, which includes information on the latest equipment used to apply polymers to a pharmaceutical system illustrated examples explaining the appropriate steps to be taken in order to solve formulation, processing, and stability problems to achieve an optimized dosage form

Medicinal chemistry is a complex topic. Written in an easy to follow and conversational style, *Basic Concepts in Medicinal Chemistry* focuses on the fundamental concepts that govern the discipline of medicinal chemistry as well as how and why these concepts are essential to therapeutic decisions. The book emphasizes functional group analysis and the basics of drug structure evaluation. In a systematic fashion, learn how to identify and evaluate the functional groups that comprise the structure of a drug molecule and their influences on solubility, absorption, acid/base character, binding interactions, and stereochemical orientation. Relevant Phase I and Phase II metabolic transformations are also discussed for each functional group. Key features include:

- Discussions on the roles and characteristics of organic functional groups, including the identification of acidic and basic functional groups.
- How to solve problems involving pH, pKa, and ionization; salts and solubility; drug binding interactions; stereochemistry; and drug metabolism.
- Numerous examples and expanded discussions for complex concepts.
- Therapeutic examples that link the importance of medicinal chemistry to pharmacy and healthcare practice.
- An overview of structure activity relationships (SARs) and concepts that govern drug design.
- Review questions and practice problems at the end of each chapter that allow readers to test their understanding, with the answers provided in an appendix.

Whether you are just starting your education toward a career in a healthcare field or need to brush up on your organic chemistry concepts, this book is here to help you navigate medicinal chemistry. About the Authors Marc W. Harrold, BS, Pharm, PhD, is Professor of Medicinal Chemistry at the Mylan School of Pharmacy, Duquesne University, Pittsburgh, PA. Professor Harrold is the 2011 winner of the Omicron Delta Kappa "Teacher of the Year" award at Duquesne University. He is also the two-time winner of the "TOPS" (Teacher of the Pharmacy School) award at the Mylan School of Pharmacy. Robin M. Zavod, PhD, is Associate Professor for Pharmaceutical Sciences at the Chicago College of Pharmacy, Midwestern University, Downers Grove, IL, where she was awarded the 2012 Outstanding Faculty of the Year award. Professor Zavod also serves on the adjunct faculty for Elmhurst College and the Illinois Institute of Technology. She currently serves as Editor-in-Chief of the journal *Currents in Pharmacy Teaching and Learning*.

*Logo Design Workbook* focuses on creating powerful logo designs and answers the question, "What makes a logo work?" In the first half of this book, authors Sean Adams and Noreen Morioka walk readers step-by-step through the entire logo-development process. Topics include developing a concept that communicates the right message and is appropriate for both the client and the market; defining how the client's long-term goals might affect the look and needs of the mark; choosing colors and typefaces; avoiding common mistakes; and deciphering why some logos are successful whereas others are not. The second half of the book comprises in-depth case studies on logos designed for various industries. Each case study explores the design brief, the relationship with the client, the time frame, and the results.

Aqueous-based film coating has become routine in the pharmaceutical industry. This process eliminates the use of organic solvents and thus avoids economic, environmental, and toxicological issues related to residual solvents and solvent recovery. Aqueous-based coating, however, is complex and many variables may impact the final product and its performance. This fourth edition of *Aqueous Polymeric Coatings for Pharmaceutical Dosage Forms* aims to provide insight into the factors and parameters that should be considered and controlled for the successful development and commercialization of a coated product. The fourth edition has been revised and expanded to reflect the most recent scientific advancements from the literature. The contributing authors explain in detail, using illustrated examples, appropriate steps to solve and ideally avoid formulation, processing, and stability problems and to achieve an optimized dosage form. Trade names and chemical names of commercially marketed coatings are used throughout the text to help familiarize the reader with the various materials available for pharmaceutical applications. This book will be a valuable resource for anyone in the pharmaceutical industry working in the area of aqueous-based film coating.

This edition of *Pharmaceutical Practice* replaces the 12th edition of Cooper and Gunn's *Dispensing for Pharmaceutical Students* and has a redesigned and updated content. Written by specialists in pharmacy education and practice it aims to provide a sound base for all aspects of the work.

This 6th edition of the established textbook covers every aspect of drug properties from the design of dosage forms to their delivery by all routes to sites of action in the body.

This unique textbook provides an introductory, yet comprehensive overview of the pharmaceutical sciences. It is the first text of its kind to pursue an interdisciplinary approach. Readers are introduced to basic concepts related to the specific disciplines in the

pharmaceutical sciences, including pharmacology, pharmaceutics, pharmacokinetics, and medicinal chemistry. In an easy-to-read writing style, the book provides readers with up-to-date information on pharmacogenomics and includes comprehensive coverage of industrial drug development and regulatory approval processes. Each chapter includes critical-thinking exercises, as well as numerous figures, tables, and graphs. Many chapters contain review questions, practice problems, and cases. More than 160 illustrations complement the text.

Pharmaceutics is one of the most diverse subject areas in all of pharmaceutical science. In brief, it is concerned with the scientific and technological aspects of the design and manufacture of dosage forms or medicines. An understanding of pharmaceutics is therefore vital for all pharmacists and those pharmaceutical scientists who are involved with converting a drug or a potential drug into a medicine that can be delivered safely, effectively and conveniently to the patient. Now in its fourth edition, this best-selling textbook in pharmaceutics has been brought completely up to date to reflect the rapid advances in delivery methodologies by eye and injection, advances in drug formulations and delivery methods for special groups (such as children and the elderly), nanomedicine, and pharmacognosy. At the same time the editors have striven to maintain the accessibility of the text for students of pharmacy, preserving the balance between being a suitably pitched introductory text and a clear reflection of the state of the art.

designed and written for newcomers to the design of dosage forms New to this edition New editor: Kevin Taylor, Professor of Clinical Pharmaceutics, School of Pharmacy, University of London. Twenty-two new contributors. Six new chapters covering parenteral and ocular delivery; design and administration of medicines for the children and elderly; the latest in plant medicines; nanotechnology and nanomedicines, and the delivery of biopharmaceuticals. Thoroughly revised and updated throughout.

A practical guide for the treatment of common diseases, this updated edition includes the very latest information. It covers the treatment of disease by drug therapy and uses case studies to illustrate the application of the principles discussed. This book contains essential knowledge on the preparation, control, logistics, dispensing and use of medicines. It features chapters written by experienced pharmacists working in hospitals and academia throughout Europe, complete with practical examples as well as information on current EU-legislation. From prescription to production, from usage instructions to procurement and the impact of medicines on the environment, the book provides step-by-step coverage that will help a wide range of readers. It offers product knowledge for all pharmacists working directly with patients and it will enable them to make the appropriate medicine available, to store medicines properly, to adapt medicines if necessary and to dispense medicines with the appropriate information to inform patients and caregivers about product care and how to maintain their quality. This basic knowledge will also be of help to industrial pharmacists to remind and focus them on the application of the medicines manufactured. The basic and practical knowledge on the design, preparation and quality management of medicines can directly be applied by the pharmacists whose main duty is production in community and hospital pharmacies and industries. Undergraduate as well as graduate pharmacy students will find knowledge and backgrounds in a fully coherent way and fully supported with examples.

Applied Pharmaceutics in Contemporary Compounding, Third Edition is designed to convey a fundamental understanding of the principles and practices involved in both the development and the production of compounded dosage forms by applying pharmaceutical principles.

The March 2018 British National Formulary (BNF 75) is your essential reference book for prescribing, dispensing, and administering medicines.

The sixth edition of Pharmacy Practice brings the contents completely up to date, reflecting emerging new roles for pharmacists both within the traditional employment areas of hospital and community pharmacy, as well as other developing roles supporting the public health agenda, governance, risk management, prescribing and pharmaco-economics. Each chapter begins with Study Points and ends with Key Points to reinforce learning. Appendices include medical abbreviations, Latin terms and abbreviations, systems of weights and measurements and presentation skills. Some chapters also carry self-assessment questions for more complex areas of pharmaceutical practice. New editor on the team, Louise Cogan. Many new contributors, comprising practising pharmacists, teachers of pharmacy, and pharmacists with joint appointments between hospital/community pharmacy and universities. Now with companion e-book included on StudentConsult New chapters on Consent History Taking/ Gathering Information Advice giving and the pharmacist as a Health Trainer Using calculations in pharmacy practice Continuing professional development and revalidation Intra and inter professional working, The role of the pharmacist in medicines optimization

Aulton's Pharmaceutics The Design and Manufacture of Medicines Elsevier Health Sciences

Introduction to Pharmaceutical Calculations is an essential study aid for pharmacy students. The book contains worked examples and sample questions and answers.

Designed for easy transport and quick reference, Pocket Anesthesia, presents essential information that residents, anesthesiologists, CRNAs, and medical students need on the wards and in the operating room. Edited by anesthesia faculty at Harvard Medical School, this pocket-size reference is ideally suited for today's fast-paced anesthesia environment--it is concise, easy to read, and evidence-based. Essential information is presented in a well-organized schematic outline format with many tables, algorithms, and diagrams. The book is filled with must-know facts about drugs, frequent intraoperative problems, differential diagnosis, common disease states, patient evaluation, and anesthetic considerations for each subspecialty. New to the revised, second edition, is the inclusion of ultrasound-guided regional anesthesia procedures.

Pharmaceutical Dosage Forms: Capsules covers the development, composition, and manufacture of capsules. Despite the important role that capsules play in drug delivery and product development, few comprehensive texts on the science and technology of capsules have been available for the research and academic environments. This text addresses this gap, discussing how capsules provide unique capabilities and options for dosage form design and formulation.

This book will describe current research on drug delivery systems that encompass four broad categories, namely: routes of delivery, delivery vehicles, payload, and targeting strategies. Where appropriate delivery vehicles and relevant release of specific agents in any of these categories in clinical application will be discussed. All chapters will highlight the translational aspects of the various technologies discussed and will provide insights into the advantages of such delivery systems over current ones in clinical or research use. Each technology reviewed in this book will have significant potential to improve patients' lives by enhancing the therapeutic efficacy of drugs. This book: Discusses the various factors that mitigate effective oral insulin delivery and the current status of research efforts to overcome these barriers along with recent clinical projections Examines the advantages and disadvantages of each drug delivery system Examines the standard method of accomplishing controlled drug release through the

incorporation of the drugs within polymeric biomaterials such as capsules and microcapsules as well as other vehicles such as liposomes Discusses various controlled drug delivery systems, including sustained release delivery systems and pulse or delayed release, e.g. to target different regions of the gastrointestinal tract. In view of these wide-ranging technological areas, and the up-to-date discussions of opportunities and challenges associated with these applications, the book should provide readers from technology, materials science, pharmacology and clinical disciplines with very valuable information.

[Copyright: fc05925913031e6d409c33ccd7f3a802](#)