

Aulton S Pharmaceutics 2nd Edition

Aulton S Pharmaceutics 2nd Edition Aultons Pharmaceutics The Science of Dosage Form Design 2nd Edition A Comprehensive Guide to Dosage Form Design and Development Aultons Pharmaceutics The Science of Dosage Form Design 2nd Edition is a comprehensive textbook and reference guide for students and professionals in the pharmaceutical sciences This extensively revised and updated edition provides a thorough principles and practices involved in the design development and manufacture of pharmaceutical dosage forms Structure and Contents The book is meticulously organized into 11 chapters each addressing a specific aspect of pharmaceutics Heres a breakdown of the key themes and content

- 1 to Pharmaceutics Sets the stage for the study of pharmaceutics by introducing the essential principles and definitions Explores the role of pharmaceutics drug development including formulation design and manufacturing Discusses the importance of quality control regulatory aspects and patient safety in pharmaceutics
- 2 Drug Substance and Drug Product Delves into the characteristics of drug substances including their physical and chemical properties Examines the process of preformulation studies to clinical trials Explores the relationship between properties and dosage form design
- 3 Dosage Form Design and Development Provides a framework for designing and developing dosage forms that meet specific therapeutic needs
- 2 Covers key considerations like drug release bioavailability stability and patient compliance Examines the various types of dosage forms including solid liquid and semisolid forms
- 4 Solid Dosage Forms Focuses on the design manufacture and evaluation of solid dosage forms including tablets capsules and granules Discusses d processes including compression granulation and coating Explores the challenges of ensuring drug release stability and disintegration in solid dosage forms
- 5 Liquid Dosage Forms Examines the formulation and manufacture of liquid dosage suspensions and emulsions Covers the physical and chemical stability and shelf life of liquid preparations Discusses the unique challenges of maintaining homogeneity and preventing sedimentation in liquid dosage forms
- 6 Semisolid Dosage Forms Explores the design and development of semisolid dosage forms such as creams ointments and gels Examines the rheological properties and release

formulations Discusses the use of various excipients and their impact on the physical and chemical properties of semisolid dosage forms

7 Transdermal Drug Delivery Introduces the principles and technologies behind transdermal drug delivery Discusses the advantages and limitations of transdermal drug delivery including its impact on bioavailability and patient compliance Examines the different types of transdermal patches and their design considerations

8 Parenteral Dosage Forms Focuses on the formulation manufacture and administration of parenteral dosage forms such as injections and infusions Covers the unique challenges of sterility pyrogenicity and particle size control in parenterals Discusses the different types of parenteral products including smallvolume injections and largevolume infusions

9 Biopharmaceutics and Pharmacokinetics Examines the relationship between the dosage form and the bodys response to drug administration Discusses concepts of absorption distribution metabolism and excretion ADME Explores the factors influencing drug bioavailability and the design of dosage forms that optimize drug delivery

10 Quality Control and Regulatory Affairs Emphasizes the importance of quality control in ensuring the safety and efficacy of pharmaceutical products Covers the various aspects of quality control including raw material inspection inprocess control and finished product testing Discusses the regulatory frameworks governing the manufacture and distribution of pharmaceutical products

11 Emerging Technologies and Future Trends Explores the latest advances in pharmaceutical science and technology Discusses the use of novel controlled release systems and targeted drug delivery in modern drug development Examines the future trends and challenges in pharmaceuticals including personalized medicine and biopharmaceuticals

Key Features

- Clear and Concise Language The book uses clear and concise language making complex concepts accessible to a broad audience
- Comprehensive Coverage The text provides a comprehensive overview of all aspects of pharmaceutical dosage form design from basic principles to advanced technologies
- Practical Applications Throughout the book realworld examples and case studies illustrate demonstrate practical applications in the pharmaceutical industry
- Abundant Illustrations and Tables Numerous illustrations tables and diagrams enhance understanding and provide visual aids to complex concepts
- UptoDate Information The 2nd edition incorporates the latest advancements and research findings in pharmaceuticals ensuring the content is relevant and contemporary

4 EndofChapter Exercises Each chapter includes practice exercises and review questions to aid in comprehension and reinforce learning

Target Audience

Aulton's Pharmaceutics: The Science of Dosage Form Design is an essential resource for Undergraduate and postgraduate students in pharmacy pharmaceutical sciences and related fields.

fields Pharmaceutical professionals working in research and development manufacturing quality control Researchers and scientists involved in development Regulatory professionals involved in pharmaceutical products Conclusion Aultons Pharmaceutics The Science of Dosage Form Design 2nd Edition is an invaluable resource for anyone seeking a comprehensive understanding of the principles and practices of pharmaceutical dosage form design Its clear explanations practical examples and upto date information make it an indispensable guide for students professionals and researchers alike

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