

An Introduction for Students of Pharmacy

KENNETH A. CONNORS

Mansoor Amiji, Thomas J. Cook, W. Cary Mobley

Thermodynamics of Pharmaceutical Systems Kenneth A. Connors, Sandro Mecozzi, 2010-01-22 Designed for pharmacy students Now updated for its Second Edition Thermodynamics of Pharmaceutical Systems provides pharmacy students with a much needed introduction to the mathematical intricacies of thermodynamics in relation to practical laboratory applications. Designed to meet the needs of the contemporary curriculum in pharmacy schools the text makes these connections clear emphasizing specific applications to pharmaceutical systems including dosage forms and newer drug delivery systems. Students and practitioners involved in drug discovery drug delivery and drug action will benefit from Connors and Mecozzi s authoritative treatment of the fundamentals of thermodynamics as well as their attention to drug molecules and experimental considerations. They will appreciate as well the significant revisions to the Second Edition Expanding the book s scope and usefulness the new edition Explores in greater depth topics most relevant to the pharmacist such as drug discovery and drug delivery supramolecular chemistry molecular recognition and nanotechnologies Moves the popular review of mathematics formerly an appendix to the front of the book Adds new textual material and figures in several places most notably in the chapter treating noncovalent chemical interactions. Two new appendices provide ancillary material that expands on certain matters bordering the subject of classical thermodynamics. Thermodynamics need not be a mystery nor confined to the realm of mathematical theory. Thermodynamics of Pharmaceutical Systems Second Edition demystifies for students the profound thermodynamic applications in the laboratory while also serving as a handy resource for practicing researchers.

Thermodynamics of Pharmaceutical Systems Kenneth A. Connors,2003-03-19 Studies of thermodynamics often fail to demonstrate how the mathematical intricacies of the subject relate to practical laboratory applications Thermodynamics of Pharmaceutical Systems makes these connections clear emphasizing specific applications to pharmaceutical systems in a study created specifically for contemporary curriculums at colleges of pharmacy Students investigating drug discovery drug delivery and drug action will benefit from Kenneth Connors s authoritative treatment of the fundamentals of thermodynamics as well as his attention to drug molecules and experimental considerations An extensive appendix that reviews the mathematics needed to master the pharmacy curriculum proves an invaluable reference Connors divides his one of a kind text into three sections Basic Thermodynamics Thermodynamics of Physical Processes and Thermodynamics of Chemical Processes chapters include Energy and the First Law of Thermodynamics The Entropy Concept Phase Transformations Solubility Acid Base Equilibria Noncovalent Binding Equilibria Thermodynamics need not be a mystery nor be confined to the realm of mathematical theory Thermodynamics of Pharmaceutical Systems introduces students of pharmacy to the profound thermodynamic applications in the laboratory while also serving as a handy resource for practicing researchers

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Pharmaceutical Systems makes these connections clear emphasizing specific applications to pharmaceutical systems in a study created specifically for contemporary curriculums at colleges of pharmacy Students investigating drug discovery drug delivery and drug action will benefit from Kenneth Connors s authoritative treatment of the fundamentals of thermodynamics as well as his attention to drug molecules and experimental considerations An extensive appendix that reviews the mathematics needed to master the pharmacy curriculum proves an invaluable reference Connors divides his one of a kind text into three sections Basic Thermodynamics Thermodynamics of Physical Processes and Thermodynamics of Chemical Processes chapters include Energy and the First Law of Thermodynamics The Entropy Concept Phase Transformations Solubility Acid Base Equilibria Noncovalent Binding Equilibria Thermodynamics need not be a mystery nor be confined to the realm of mathematical theory Thermodynamics of Pharmaceutical Systems introduces students of pharmacy to the profound thermodynamic applications in the laboratory while also serving as a handy resource for practicing researchers Comprehensive Textbook Of Physical Pharmaceutics Dr. Tejas Shivram Pachpute, Mr. Sudarshan Nandkumar Borkar, Dr. Ajay Madhukar Deshpande, Mr. Kishor Arvind Kothawade, 2024-02-16 This book aims to offer students and professionals in the area of pharmacy and associated subjects a comprehensive grasp of physical principles that underlie the formulation of pharmaceuticals and the administration of drugs Physical pharmaceutics is a subfield of the pharmaceutical sciences that focuses on the application of the fundamentals of physics and chemistry to the formulation manufacture and assessment of various dosage forms used in the pharmaceutical industry. It covers a broad variety of subjects including solubility diffusion rheology and interfacial phenomena all of which are very important in the process of developing pharmaceutical products and ensuring their effectiveness In this textbook the goal is to address these subjects in a way that is both clear and organized Also have presented the basic ideas and principles associated with the discipline along with practical applications and examples from the field A general introduction to the subject at hand is provided at the beginning of each chapter which is then followed by in depth examinations of pertinent theories experimental methods and applications in the actual world Additionally this book has included images tables and examples that have been worked out throughout the whole of the book to improve comprehension and make learning easier This textbook will prove to be an invaluable resource for you regardless of whether you are a student who is just starting in the field of pharmaceutical sciences or an experienced professional who is eager to enhance your knowledge you will find it not only educational but also interesting and ultimately helpful to your study of physical pharmaceutics as well as your practice in the field Thermodynamics for Drug Product Design William Craig Stagner, 2025-09-23 Comprehensive reference reviewing how thermodynamic principles underpin the design of drug products and their applications Written in an easy to read and understand style Thermodynamics for Drug Product Design offers an abundance of real life drug product design examples applications personal anecdotes and solved problems that contextualize thermodynamic principles for the drug product design scientist Advanced undergraduate and beginning

graduate students will learn to apply thermodynamic principles to create robust drug products and to predict prevent analyze and evaluate the root cause of product failures Professionals engaged in drug product design will find this book to be a rich and easy to use reference guide The first two chapters address some key basics of data reporting and analysis math and thermodynamic properties using simple and accessible language These chapters also help readers understand fundamental underlying definitions and physical relationships required to use thermodynamic laws in the design of drug products In later chapters the book focuses on six industrial pharmacy relevant thermodynamic topics the laws of thermodynamics Gibbs free energy equilibrium drug solubility equilibrium surface thermodynamics and adsorption phenomena Thermodynamics for Drug Product Design features chapters including Data Reporting and Analysis Underlying Thermodynamic Physical Property Relationships and Definitions The Laws of Thermodynamics Gibbs Free Energy Equilibrium Drug Solubility Equilibrium Surface Thermodynamics Adsorption Phenomena What others say comprehensive rigorous and logically organized the explanations flow effortlessly from the page BRUNO HANCOCK PhD FAAPS Editor JPharmSci has a unique style of communicating complex scientific issues KEN MORRIS PhD FAAPS Professor Emeritus Founding Director Lachman Institute unusual wide range of subjects unusual for detail DALE ERIC WURSTER PhD FAAPS Physicochemical Basis of Pharmaceuticals Humphrey Moynihan, Abina Professor Emeritus 2019 AAPS President Crean, 2009-07-23 What are the physical and chemical properties that determine how a drug interacts with the body What determines which dosage form is best if it will reach its intended target and how it will be metabolised once it has entered the body The Physicochemical Basis of Pharmaceuticals explores the phenomena which affect the formulation and bio availability of drug substances to give a straightforward accessible treatment of the essential concepts affecting the absorption and distribution of drugs It provides the reader with the conceptual tool kit necessary to understand the physicochemical aspects of drug design and action and shows how these concepts apply in practice The book introduces key underlying physical chemistry principles before exploring pharmaceutical solutions the pharmaceutical solid phase solid liquid dispersal systems biological interfaces absorption distribution metabolism and excretion to give a complete view of the field Focusing at all times on the essential principles and concepts The Physicochemical Basis of Pharmaceuticals avoids excessive detail presenting the key facts backed up with pertinent examples and easy to digest illustrations making it the ideal primer for those who need to understand physicochemical issues in the context of their broader field of study Online Resource Centre For registered adopters of the text Figures from the book in electronic format ready to download For students A hyperlinked bibliography of references given in the text Theory and Practice of Contemporary Pharmaceutics Tapash K. Ghosh, Bhaskara R. Jasti, 2004-11-23 With a shift toward problem based learning and critical thinking in many health science fields professional pharmacy training faces a shift in focus as well Although the Accreditation Council for Pharmacy Education ACPE has recently suggested guidelines for problem solving to be better integrated into pharmacy

curriculum pharmacy books currently available either address this material inadequately or lack it completely Theory and Practice of Contemporary Pharmaceutics addresses this problem by challenging pharmacy students to think critically in preparation for situations that arise in clinical practice This book offers a wealth of up to date information organized in a logical sequence corresponding to the art and science required for formulators in industry and dispensing pharmacists in the community It breaks down the subject to its simplest form and includes numerous examples case studies and problems In addition to presenting basic scientific principles each chapter includes a self evaluation tutorial designed to help you evaluate your understanding of the subject matter numerical problems that provide practice in finding mathematical solutions and case studies that measure your overall grasp of the subject matter by challenging you to craft a plausible solution to a real life scenario using the concepts presented in that chapter Written by authors selected from academia industry and regulatory agencies the book presents an objective and balanced view of pharmaceutical science and its application The authors insights are extremely helpful to pharmacy students as well as practicing pharmacists involved in the development and or dispensation of existing and new generation biotechnology based drug products This simplified and user friendly book will present pharmaceutics in a way that it has never been presented before and will help prepare students and Theory of Pharmaceutical Systems pharmacists for the competitive and challenging nature of the professional market Chemical Engineering in the Pharmaceutical Industry David J. am Ende, Mary T. am Jens T. Carstensen, 1972 Ende, 2019-03-28 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 Industryf ocuses on the development and chemical engineering as well as operations specific to the design formulation and manufacture of drug substance and products

Graduate Studies ,1982 Solid State Characterization of Pharmaceuticals Richard A. Storey, Ingvar Ymén, 2011-03-31 The field of solid state characterization is central to the pharmaceutical industry as drug products are in an overwhelming number of cases produced as solid materials Selection of the optimum solid form is a critical aspect of the development of pharmaceutical compounds due to their ability to exist in more than one form or crystal structure polymorphism These polymorphs exhibit different physical properties which can affect their biopharmaceutical properties This book provides an up to date review of the current techniques used to characterize pharmaceutical solids Ensuring balanced practical coverage with industrial relevance it covers a range of key applications in the field The following topics are included Physical properties and processes Thermodynamics Intellectual guidance X ray diffraction Spectroscopy Microscopy Particle sizing Mechanical properties Vapour sorption Thermal analysis Calorimetry Polymorph prediction Form selection Physicochemical Approaches to the Characterization of Pharmaceutical Systems Ireneo Kikic, Mariarosa Moneghini, Nicola De Zordi, Stefano Antonio Mezzasalma, Gabriele Grassi, Mario Grassi, 2018-05-01 Chemical physics and thermodynamics cover a role of the outermost importance in the study of many pharmaceutical based disciplines especially whenever a thorough understanding of the involved chemical reactions or materials processing becomes highly desirable In this line the present book aims at providing any reader or worker in these fields with a consistent experimental data analysis carried out exhaustively by a number of theoretical models and discussed in any necessary detail In comparison with the existing texts ours will include more practical aspects with examples of calculus taken from or inspired to the modern literature It will also tackle the most advanced chemical estimation methods employed in pharmaceutical sciences taking care of communicating as best as possible a modern way of looking at the arguments involved In this respect observe that the ongoing bibliography on open questions which were formerly neglected is now continuously growing The chapters developing the mathematical modeling will be organized so as to explain and quantify the physical and chemical frames of the complex systems met by pure and applied researchers in their daily activity. The theoretical sections in particular will take care of any method assuring an efficient coding for the employed procedures as those relying on macroscopic or statistical thermodynamics and of describing the experimental tests for the scrutinized molecular systems As an example any equation of state must be able to provide in addition with density enthalpy fugacity coefficients and phase equilibrium conditions with every partial thermodynamic derivative with respect to temperature pressure and any quantity assigning the mixture composition We will also emphasize the physical chemistry characterization of the active compounds and

concentrate on their crystal amorphous and polymorphic forms as well as on the roles played by their states of matter An appropriate monographic section will thus be devoted to the application of X ray diffraction to non structural issues like atomic and molecular vibrations order disorder transitions theories of the defect solid state crystal imperfections and to structural problems such as the so called crystallite size approaches see for instance Scherrer's and Warren Averbach's sometimes hardly applicable with the necessary accuracy At that point we will try to argue whether the current thermal experiments normally employed to check the assumptions coming from solid state physics and thermochemistry may or may not introduce some novelty or original prospect within the modern arena of pharmaceutical sciences A chapter on solubility and precipitation kinetics particularly on how to exploit and modify their variables in a number of relevant cases will then be presented In another one we will approach the most advanced methods which can estimate the macroscopic chemical features from theoretical and numerical tools avoiding in this way the expenses connected with usual laboratory routes The plenty of techniques illustrated in the literature unfortunately are often unable to return satisfactory estimations of properties associated with complex molecular geometries Our intention in this respect will be supplying several guidelines bringing to better evaluations of some at least among the most important drug polymer and biopolymer characteristics A final step now more related to molecular topology chemical graph theories and several issues of group contributions in physical chemistry will be inquiring on the relationship between the atomic molecular shape of organic compounds and their larger scale thermodynamic features This is a long standing problem of physics and chemistry that on considering the number of open questions in this matter could find here the room for new insights statements and formal approaches

Applied Physical Pharmacy, Third Edition Mansoor Amiji, Thomas J. Cook, W. Cary Mobley, 2019-06-26 A complete practice oriented introduction to physical pharmacy Written to clearly and simply explain how drugs work this textbook explores the fundamental physicochemical attributes and processes important for understanding how a drug is transformed into a usable product that is administered to a patient to reach its pharmacological target and then exists the body Applied Physical Pharmacy Third Edition begins with a review of the key biopharmaceutics concepts of drug liberation absorption distribution metabolism and excretion These concepts and others set the framework for the subsequent chapters that describe physicochemical properties and process related to the fate of the drug Other physical pharmacy topics important to drug formulation are discussed in the chapters that follow which describe dispersal systems interfacial phenomena and rheology The textbook concludes with an overview of the principles of kinetics that are important for understanding the rates at which many of the processes discussed in previous chapters occur Chapters in this Third Edition retain the acclaimed learning aids of previous editions including Learning Objectives Practice Problems Key Points and Clinical Questions In order to be of greater value to the pharmacy student more clinical questions have been added and many tables have been updated with more current products and excipients

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