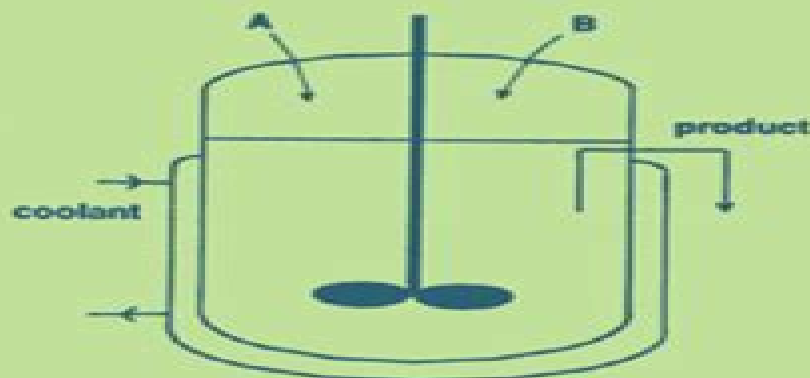


Process Development: Physicochemical Concepts

**John H. Atherton and
Keith J. Carpenter**



Process Development Physicochemical Concepts

Manfred Bochmann



Process Development Physicochemical Concepts:

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Process Development John Atherton, Keith Carpenter, 2000-01-20 This Primer describes the fundamental science underlying the development of processes for the manufacture of Fine Chemicals such as pharmaceuticals and agrochemicals Understanding the scientific bases which underlie these chemical processes is vital in the development of more efficient and environmentally friendly processes in the future Yet this is the only text in the field which specifically covers this important topic The book outlines both the strategies employed in process development and also the chemical and chemical engineering concepts involved

Pharmaceutical Process Development John Blacker, Michael T Williams, 2011-08-17 Pharmaceutical process research and development is an exacting multidisciplinary effort but a somewhat neglected discipline in the chemical curriculum This book presents an overview of the many facets of process development and how recent advances in synthetic organic chemistry process technology and chemical engineering have impacted on the manufacture of pharmaceuticals In 15 concise chapters the book covers such diverse subjects as route selection and economics the interface with medicinal chemistry the impact of green chemistry safety the crucial role of physical organic measurements in gaining a deeper understanding of chemical behaviour the role of the analyst new tools and innovations in reactor design purification and separation solid state chemistry and its role in formulation The book ends with an assessment of future trends and challenges The book provides a valuable overview of both early and late stage chemical development how safe and scaleable synthetic routes are designed selected and developed the importance of the chemical engineering analytical and manufacturing interfaces the key enabling technologies including catalysis and biocatalysis the importance of the green chemical perspective and solid form issues The book written and edited by experts in the field is a contemporary holistic treatise with a logical sequence for process development and mini case histories within the chapters to bring alive different aspects of the process It is completely pharmaceutical themed encompassing all essential aspects from route and reagent selection to manufacture of the active compound The book is aimed at both graduates and postgraduates interested in a career in the pharmaceutical industry It informs them about the breadth of the work carried out in chemical research and development departments and gives them a feel for the challenges involved in the job The book is also of value to academics who often understand the drug discovery arena but have far less appreciation of the drug development area and are thus unable to advise their students about the relative merits of careers in chemical development

versus discovery **Practical Process Research and Development** Neal G. Anderson, 2012-05-23 Designed to provide a comprehensive step by step approach to organic process research and development in the pharmaceutical fine chemical and agricultural chemical industries this book describes the steps taken following synthesis and evaluation to bring key compounds to market in a cost effective manner It describes hands on step by step approaches to solving process development problems including route reagent and solvent selection optimising catalytic reactions chiral syntheses and green chemistry Second Edition highlights Reflects the current thinking in chemical process R D for small molecules Retains similar structure and orientation to the first edition Contains approx 85% new material Primarily new examples work up and prospective considerations for pilot plant and manufacturing scale up Some new expanded topics e g green chemistry genotoxins enzymatic processes Replaces the first edition although the first edition contains useful older examples that readers may refer to Provides insights into generating rugged practical cost effective processes for the chemical preparation of small molecules Breaks down process optimization into route reagent and solvent selection development of reaction conditions workup crystallizations and more Presents guidelines for implementing and troubleshooting processes **Active**

Pharmaceutical Ingredients Stanley Nusim, 2016-04-19 To successfully bring an Active Pharmaceutical Ingredient API to market many steps must be followed to ensure compliance with governmental regulations This book is an unparalleled guide to the development manufacturing and regulation of the preparation and use of APIs globally This second edition brings readers up to date with the quality control regulations for APIs that have been added or amended since the first edition These updates help ensure that pharmaceutical professionals and drug manufacturers meet the established and required guidelines set forth by the US and international regulatory industries *Drug Discovery and Development, Volume 2* Mukund S.

Chorghade, 2007-09-24 From first principles to real world applications here is the first comprehensive guide to drug discovery and development Modern drug discovery and development require the collaborative efforts of specialists in a broad array of scientific technical and business disciplines from biochemistry to molecular biology organic chemistry to medicinal chemistry pharmacology to marketing Yet surprisingly until now there were no authoritative references offering a complete fully integrated picture of the process The only comprehensive guide of its kind this groundbreaking two volume resource provides an overview of the entire sequence of operations involved in drug discovery and development from initial conceptualization to commercialization to clinicians and medical practitioners Volume 1 Drug Discovery describes all the steps in the discovery process including conceptualizing a drug creating a library of candidates for testing screening candidates for in vitro and in vivo activity conducting and analyzing the results of clinical trials and modifying a drug as necessary Volume 2 Drug Development delves into the nitty gritty details of optimizing the synthetic route drug manufacturing outsourcing and marketing including drug coloring and delivery methods Featuring contributions from a world class team of experts Drug Discovery and Development Features fascinating case studies including the discovery and

development of erythromycin analogs Tagamet and Ultram discusses the discovery of medications for bacterial infections Parkinson's disease psoriasis peptic ulcers atopic dermatitis asthma and cancer Includes chapters on combinatorial chemistry molecular biology based drug discovery genomics and chemogenomics Drug Discovery and Development is an indispensable working resource for industrial chemists biologists biochemists and executives who work in the pharmaceutical industry

Chemical Engineering in the Pharmaceutical Industry David J. Am Ende, 2011-03-10 This book deals with various unique elements in the drug development process within chemical engineering science and pharmaceutical R D The book is intended to be used as a professional reference and potentially as a text book reference in pharmaceutical engineering and pharmaceutical sciences Many of the experimental methods related to pharmaceutical process development are learned on the job This book is intended to provide many of those important concepts that R D Engineers and manufacturing Engineers should know and be familiar if they are going to be successful in the Pharmaceutical Industry These include basic analytics for quantitation of reaction components often skipped in ChE Reaction Engineering and kinetics books In addition Chemical Engineering in the Pharmaceutical Industry introduces contemporary methods of data analysis for kinetic modeling and extends these concepts into Quality by Design strategies for regulatory filings For the current professionals in silico process modeling tools that streamline experimental screening approaches is also new and presented here Continuous flow processing although mainstream for ChE is unique in this context given the range of scales and the complex economics associated with transforming existing batch plant capacity The book will be split into four distinct yet related parts These parts will address the fundamentals of analytical techniques for engineers thermodynamic modeling and finally provides an appendix with common engineering tools and examples of their applications

Chemistry for Sustainable Technologies Neil Winterton, 2021-02-04 Following the success of the first edition this fully updated and revised book continues to provide an interdisciplinary introduction to sustainability issues in the context of chemistry and chemical technology Its prime objective is to equip young chemists and others to more fully to appreciate defend and promote the role that chemistry and its practitioners play in moving towards a society better able to control manage and ameliorate its impact on the ecosphere To do this it is necessary to set the ideas concepts achievements and challenges of chemistry and its application in the context of its environmental impact past present and future and of the changes needed to bring about a more sustainable yet equitable world Progress since 2010 is reflected by the inclusion of the latest research and thinking selected and discussed to put the advances concisely in a much wider setting historic scientific technological intellectual and societal The treatment also examines the complexities and additional challenges arising from public and media attitudes to science and technology and associated controversies and from the difficulties in reconciling environmental protection and global development While the book stresses the central importance of rigour in the collection and treatment of evidence and reason in decision making to ensure that it meets the needs of an extensive community of students it is broad

in scope rather than deep It is therefore appropriate for a wide audience including all practising scientists and technologists

The Investigation of Organic Reactions and Their Mechanisms Howard Maskill, 2008-04-15 A range of alternative mechanisms can usually be postulated for most organic chemical reactions and identification of the most likely requires detailed investigation Investigation of Organic Reactions and their Mechanisms will serve as a guide for the trained chemist who needs to characterise an organic chemical reaction and investigate its mechanism but who is not an expert in physical organic chemistry Such an investigation will lead to an understanding of which bonds are broken which are made and the order in which these processes happen This information and knowledge of the associated kinetic and thermodynamic parameters are central to the development of safe efficient and profitable industrial chemical processes and to extending the synthetic utility of new chemical reactions in chemical and pharmaceutical manufacturing and academic environments Written as a coherent account of the principal methods currently used in mechanistic investigations at a level accessible to academic researchers and graduate chemists in industry the book is highly practical in approach The contributing authors an international group of expert practitioners of the techniques covered illustrate their contributions by examples from their own research and from the relevant wider chemical literature The book covers basic aspects such as product analysis kinetics catalysis and investigation of reactive intermediates It also includes material on significant recent developments e g computational chemistry calorimetry and electrochemistry in addition to topics of high current industrial relevance e g reactions in multiphase systems and synthetically useful reactions involving free radicals and catalysis by organometallic compounds

Aromatic Chemistry Malcolm Sainsbury, 1992-08-27 All the basic principles of this important topic are clearly presented here in an account which takes as examples many compounds of industrial and biological significance Consideration is given to the structure reactions and properties of benzene and classes of aromatic compounds derived from it and topics such as thermodynamic versus kinetic control and pericyclic reactions are introduced The text also covers polycyclic arenes and the small and large ring systems which are embraced by the wider definition of aromaticity

Acids and Bases Brian G. Cox, 2013-01-31 This book seeks to enhance our understanding of acids and bases by reviewing and analysing their behaviour in non aqueous solvents The behaviour is related where possible to that in water but correlations and contrasts between solvents are also presented

Organometallics Manfred Bochmann, 1994 This succinct text outlines the main classes of transition metal organometallic complexes and introduces the reader to the chemistry of compounds with metal carbon s bonds metal carbonyls metal alkyls and metal alkylidenes and alkylidnes The synthetic methods leading to each class of compounds are illustrated with pertinent examples followed by the discussion of characteristic structures and reactivity patterns The aim is to allow undergraduate students a quick overview over this area of chemistry Highlights and excursions stress general principles and relate the material to specific applications such as catalytic processes

Applications of New Concepts of Physical-Chemical Wastewater Treatment W.W. Eckenfelder, L.K. Cecil, 2013-10-22

Applications of New Concepts of Physical Chemical Wastewater Treatment deals with novel concepts of physical chemical wastewater treatment with particular reference to their engineering applications Topics covered range from ultrahigh rate filtration of municipal wastewater to the applicability of carbon adsorption in the treatment of petrochemical wastewaters along with regeneration of activated carbon and dewatering of physical chemical sludges Comprised of 31 chapters this volume begins with a discussion on the use of physical chemical methods for the treatment of municipal wastes and for direct wastewater treatment The following chapters focus on the interrelationships between biological treatment and physicochemical treatment some problems associated with the treatment of sewage by non biological processes treatment of wastes generated by metal finishing and engineering industries and the principles and practice of granular carbon reactivation The precipitation of calcium phosphate in wastewaters is also considered together with the use of surface stirrers for ammonia desorption from ponds This book will be a valuable resource for chemists engineers government officials and environmental policymakers

European Symposium on Computer Aided Process Engineering - 14 Ana Paula Barbosa-Póvoa, Henrique Matos, 2004-05-14 This book contains papers presented at the 14th European Symposium on Computer Aided Process Engineering ESCAPE 14 The ESCAPE symposia bring together scientists students and engineers from academia and industry who are active in the research and application of Computer Aided Process Engineering The objective of ESCAPE 14 is to highlight the use of computers and information technology tools on five specific themes 1 Product and Process Design 2 Synthesis and Process Integration 3 Process Control and Analysis 4 Manufacturing Process Operations 5 New Challenges in CAPE Provides this year's comprehensive overview of the current state of affairs in the CAPE community Contains reports from the frontiers of science by the field's most respected scientists Special Keynote by Professor Roger Sargent Long Term Achievement CAPE Award winner

Aquatic Environmental Chemistry Alan G. Howard, 1998-07-23 Equilibrium inorganic chemistry underlies the composition and properties of the aquatic environment and provides a sound basis for understanding both natural geochemical processes and the behaviour of inorganic pollutants in the environment This clear and progressive introduction to the topic uses a wide range of examples to explain the behaviour of chemical species in aquatic systems

Formulation and Process Development Strategies for Manufacturing Biopharmaceuticals Feroz Jameel, Susan Hersenson, 2010-08-09 A real world guide to the production and manufacturing of biopharmaceuticals While much has been written about the science of biopharmaceuticals there is a need for practical up to date information on key issues at all stages of developing and manufacturing commercially viable biopharmaceutical drug products This book helps fill the gap in the field examining all areas of biopharmaceuticals manufacturing from development and formulation to production and packaging Written by a group of experts from industry and academia the book focuses on real world methods for maintaining product integrity throughout the commercialization process clearly explaining the fundamentals and essential pathways for all development stages Coverage includes Research

and early development phase appropriate approaches for ensuring product stability Development of commercially viable formulations for liquid and lyophilized dosage forms Optimal storage packaging and shipping methods Case studies relating to therapeutic monoclonal antibodies recombinant proteins and plasma fractions Useful analysis of successful and failed products Formulation and Process Development Strategies for Manufacturing Biopharmaceuticals is an essential resource for scientists and engineers in the pharmaceutical and biotech industries for government and regulatory agencies and for anyone with an interest in the latest developments in the field *Concept of Development* Dale B. Harris, 1967-09-25

Introduction to Chemical Engineering Uche P. Nnaji, 2019-10-10 The field of chemical engineering is undergoing a global renaissance with new processes equipment and sources changing literally every day It is a dynamic important area of study and the basis for some of the most lucrative and integral fields of science Introduction to Chemical Engineering offers a comprehensive overview of the concept principles and applications of chemical engineering It explains the distinct chemical engineering knowledge which gave rise to a general purpose technology and broadest engineering field The book serves as a conduit between college education and the real world chemical engineering practice It answers many questions students and young engineers often ask which include How is what I studied in the classroom being applied in the industrial setting What steps do I need to take to become a professional chemical engineer What are the career diversities in chemical engineering and the engineering knowledge required How is chemical engineering design done in real world What are the chemical engineering computer tools and their applications What are the prospects present and future challenges of chemical engineering And so on It also provides the information new chemical engineering hires would need to excel and cross the critical novice engineer stage of their career It is expected that this book will enhance students understanding and performance in the field and the development of the profession worldwide Whether a new hire engineer or a veteran in the field this is a must have volume for any chemical engineer's library Chemiereaktoren Jens Hagen, 2012-03-14 Mittelpunkt eines jeden chemischen Prozesses ist der Chemiereaktor in dem chemische Umsetzungen unter technischen und möglichst optimalen Bedingungen durchgeführt werden Unser Buch behandelt die Grundlagen der Chemischen Reaktionstechnik und erläutert alle erforderlichen Auslegungsgleichungen auf Basis der Stoff und Wärmebilanz unter Berücksichtigung der Stöchiometrie und Kinetik der Reaktionen Jedes Kapitel enthält vollständig durchgerechnete Beispiele und Übungsaufgaben für die Lösungen angegeben sind und der Lösungsweg kommentiert wird Komplexere Aufgabenstellungen werden unter Einsatz von numerischen Verfahren mit dem Computer gelöst Das Softwarepaket POLYMATH bietet einen sehr guten Einstieg in die Modellierung und Simulation von Chemiereaktoren es ist besonders anschaulich und einfach zu erlernen Mit einem einmal aufgestellten Modell lässt sich der Einfluss verschiedener Reaktionsparameter auf den Gesamtprozess leicht nachvollziehbar simulieren Zielgerichtet wird die Modellierung von Problemstellungen geteilt und es werden verständliche Lösungswege aufgezeigt um praxisbezogene Aufgaben zu lösen Vorausgesetzt werden nur Grundkenntnisse in Physikalischer Chemie

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