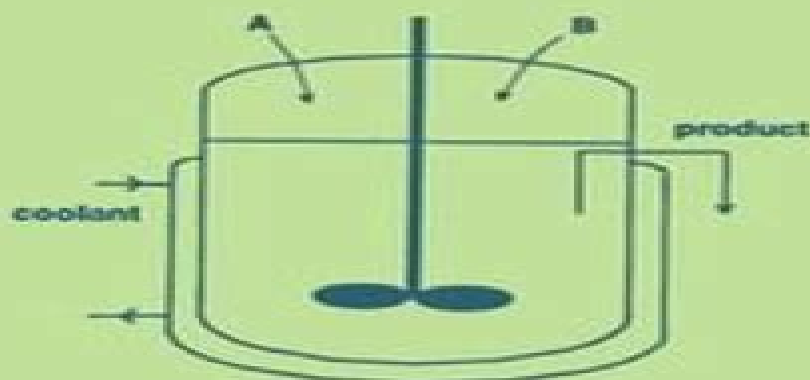


Process Development: Physicochemical Concepts

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



Process Development Physicochemical Concepts

Pete Biggs



Process Development Physicochemical Concepts:

Process Development John H. Atherton, K. J. Carpenter, 2005 The fine chemicals industry is concerned with the manufacture of relatively small volume products by multistage manufacturing processes This primer outlines the strategy for obtaining the requisite data and outlines chemical and engineering concepts

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

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 Lösungsaufgaben 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 verschiedene Lösungswege aufgezeigt um praxisbezogene Aufgaben zu lösen Vorausgesetzt werden nur Grundkenntnisse in Physikalischer Chemie insbesondere Reaktionskinetik und Mathematik Lösung von Differentialgleichungen Regression

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 sigma 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

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

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

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

Foundations of Physical Chemistry Charles P. Lawrence, Alison Rodger, R. G. Compton, 1996 An introduction to undergraduate level physical chemistry that should bridge the increasing gap between school or college and university It aims to stimulate students to extend their knowledge from A AS GNVQ level to the ideas essential for university ent

Foundations of Physics for Chemists Grant A. D. Ritchie, D. S. Sivia, 2000 This presents the fundamental physics required for a full understanding of a diverse range of chemical phenomena and techniques such as diffraction reaction rates and nuclear magnetic resonance The text begins with a discussion of classical and wave mechanics which allows quantum mechanics to be introduced at an early stage The ideas presented in these early chapters are subsequently developed to deal with the traditional physics topics of kinetic theory electrostatics magnetism and optics However the text maintains a distinct chemical perspective by focusing on relevant chemical examples rather than the more hypothetical examples favored by the majority of introductory physics texts Students will find the information presented directly applicable to the concepts and examples that they encounter throughout an undergraduate chemistry course

Computers in Chemistry Pete Biggs, 1999 Computers have become an integral part of chemistry Virtually all modern scientific instrumentation contains some form of computer and indeed the operation of many

instruments has become so complex that it is impossible without some degree of computer control It is vital for the modern student of chemistry to have at least a basic knowledge of computers and the deeper that knowledge is the better use will be made of the techniques available Computers in Chemistry provides an excellent overview of computers and their use in chemistry giving the student an insight into both the workings of a computer and the ways in which computer facilities can be effectively applied in the study of chemistry today Topics covered include programming hardware laboratory software interfacing computers with experiments and presenting computed information

The Pilot Plant Real Book Francis X. McConville, 2002 Handbook for chemists chemical engineers technicians Information on chemicals solvents gases materials the selection of reactors chillers filters pumps and other equipment conversion factors mathematical formulas fundamentals of heat transfer temperature control safe operation of electrical equipment chemical hygiene safety plus rules of thumb and recommendations for the safe efficient operation of a small chemical pilot facility

Radiation Heat Transfer Howard Richard Neil Jones, 2000 This book is an introductory text on radiation heat transfer aimed at undergraduate and postgraduate students working in an engineering environment who have no prior knowledge of the subject It starts from the basic physical principles of thermal radiation and then goes on to develop methods for the calculation of view factors rates of heat transfer between surfaces effects of intervening gases and the treatment of combined modes of heat transfer It applies these methods to a number of practical engineering examples including heat transfer in furnaces techniques for the measurement of temperature and radiation from particles in combustion gases The text works from a student's point of view and is based firmly in the tradition of hand calculation as commonly encountered in university teaching programmes

JOURNAL OF THE HISTORY OF BIOLOGY D REIDEL, 1976

American Book Publishing Record, 2001

Radical Chemistry Michael John Perkins, 2000 Another volume in the successful Oxford Chemistry Primers series Number 91 cover radicals reactive molecular fragments which may participate in chemical reactions and are frequently associated with disease but are now recognized to be important in polymer synthesis This text helps upper undergraduates understand the basics of radical chemistry in a modern context and how it is being used in organic synthesis mediators of many disease conditions and the control of enzyme action

Theoretical Foundations of Chemical Engineering, 1975

The Rise of Experimental Biology Elizabeth B. Gasking, 1970

Foundations of Forest Ecosystems: Scientific method Egolf Voldemars Bakuzis, 1974

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