

The Management of Chemical Process Development in the Pharmaceutical Industry



Derek Walker

The Management Of Chemical Process Development In The Pharmaceutical Industry

Peter Bamfield

The Management Of Chemical Process Development In The Pharmaceutical Industry:

The Management of Chemical Process Development in the Pharmaceutical Industry Derek Walker, 2008-03-03 Here is a practical guide that not only presents insights into the organization and management of the disciplines involved in chemical process development but also provides basic knowledge of these disciplines enabling process development practitioners to recognize and assimilate them in their work This book illustrates practical considerations through many examples of the successful direction and integration of the activities of chemists analysts chemical engineers and biologists as well as safety regulatory and environmental professionals in productive teams Moreover this reference provides guidance on Directing and carrying out specific tasks and courses of action Making and communicating clear and achievable decisions Solving problems on the spot Managing the administrative aspects of chemical process development The author Dr Derek Walker has directed chemical process development work for four decades combining firsthand chemical synthesis experience with many other disciplines needed to create chemical processes You will benefit from his advice and unique insights into Understanding the workings of matrix organizations Defining missions and creating action plans Developing interdisciplinary approaches to problem solving Holding review meetings revising goals and motivating staff Prioritizing programs and responses to emergencies In addition you'll learn how successful chemists in collaboration with other disciplines define the best green chemistry for process scale up including accommodating FDA requirements in the last process steps and addressing safety and environmental matters early in their work Case studies provide incisive perspective on these issues A chapter on recognizing and patenting intellectual property emphasizes the importance of comprehensive literature surveys and understanding invention A chapter on the future challenges you to think beyond narrow constraints and explore new horizons

The Chemistry of Process Development in Fine Chemical and Pharmaceutical Industry Someswara Rao, 2007-04-02 This book brings together the chemical strategies used in the optimisation of organic reactions and processes and highlights the practical and technological options available This book offers an encyclopedic treatment of organic chemistry from an industrial process research and development and manufacturing point of view plenty of examples to illustrate the scope and limitation of the strategies a comprehensive index organised by topic reaction type and reagent an extensive literature survey This is an essential and comprehensive guide for experienced practitioners of chemical process research and development fresh recruits to chemical industry R D divisions and academics who are interested in interacting with the chemical industry optimising their synthetic strategies and enriching the field of atom economy

Catalytic Process Development for Renewable Materials Pieter Imhof, Jan Cornelis van der Waal, 2013-02-28 Green clean and renewable are the hottest keywords for catalysis and industry This handbook and ready reference is the first to combine the fields of advanced experimentation and catalytic process development for biobased materials in industry It describes the entire workflow from idea approach research and process development right up to commercialization A large part of the book is devoted to the use

of advanced technologies and methodologies like high throughput experimentation as well as reactor and process design models with a wide selection of real life examples included at each stage The contributions are from authors at leading companies and institutes providing firsthand information and knowledge that is hard to find elsewhere This work is aimed at decision makers engineers and chemists in industry chemists and engineers working with renewables chemists in the field of catalysis and chemical engineers **Pharmaceutical Process Development** A. John Blacker, Mike T. Williams, Michael T. Williams, Royal Society of Chemistry (Great Britain), 2011 This book is aimed at both graduates and postgraduates interested in a career in the pharmaceutical industry and informs them about the breadth of the work carried out in chemical research and development departments It is also of value to academics wishing to advise students on the merits of careers in chemical development versus discovery

Research and Development Management in the Chemical and Pharmaceutical

Peter Bamfield, 2003-09-19 Mastering management skills is hard to achieve by newcomers starting their careers in the chemical industry The message coming from there is that good chemists swiftly have to become good managers if they are to survive and progress in today's competitive climate This book is designed to help guide younger R D chemists to ways in which they can quickly evolve skills which are built around three factors people knowledge and time It covers the management of scientific personnel management within a variety of R D organisational structures creating a climate of innovation the management of projects including the time management and communication aspects of the job The author Peter Bamfield is now working as a consultant Due to his long experience in the chemical industry he was elected President of the Royal Society of Chemistry's Industrial Affairs Division This second edition of the book has been revised and updated to take recent global developments and restructuring in the chemical industry into account as well as the rising importance of information technology in management

The Chemistry Of Process Developmet In Fine Chemical & Pharmaceutical Industry 2/Ed C. Somerswara Rao, Rao, 2006 This Book Offers An Encyclopedic Treatment Of Organic Chemistry From An Industrial Process Research And Development And Manufacturing Point Of View Plenty Of Examples To Illustrate The Scope And Limitation Of The Strategies A Comprehensive Index Organised By Topic Reaction Type And Reagent And An Extensive Literature Survey

Handbook of Industrial Chemistry and Biotechnology James A. Kent, 2013-01-13 Substantially revising and updating the classic reference in the field this handbook offers a valuable overview and myriad details on current chemical processes products and practices No other source offers as much data on the chemistry engineering economics and infrastructure of the industry The Handbook serves a spectrum of individuals from those who are directly involved in the chemical industry to others in related industries and activities It provides not only the underlying science and technology for important industry sectors but also broad coverage of critical supporting topics Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in chapters on Green Engineering and Chemistry specifically biomass conversion Practical Catalysis and Environmental Measurements as well as

expanded treatment of Safety chemistry plant security and Emergency Preparedness Understanding these factors allows them to be part of the total process and helps achieve optimum results in for example process development review and modification Important topics in the energy field namely nuclear coal natural gas and petroleum are covered in individual chapters Other new chapters include energy conversion energy storage emerging nanoscience and technology Updated sections include more material on biomass conversion as well as three chapters covering biotechnology topics namely Industrial Biotechnology Industrial Enzymes and Industrial Production of Therapeutic Proteins

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

Handbook for Chemical Process Research and Development Wenyi Zhao,2016-11-03 The Handbook for Chemical Process Research and Development focuses on developing processes for chemical and pharmaceutical industries Forty years ago there were few process research and development activities in the pharmaceutical industry partially due to the simplicity of the drug molecules However with the increasing structural complexity especially the introduction of chiral centers into the drug molecules and strict regulations set by the EMA and FDA process R D has become one of the critical departments for pharmaceutical companies This book assists with the key responsibility of process chemists to develop chemical processes for manufacturing pharmaceutical intermediates and final drug substances for clinical studies and commercial production

Research and Development in the Chemical and Pharmaceutical Industry Peter Bamfield,2006-12-13 A guide for younger R D chemists as to how they can quickly evolve skills built around three factors people knowledge and time It covers the management of scientific personnel management within a variety of R D organizational structures creating a climate of innovation the management of projects

including the time management and communication aspects of the job As such it teaches the vital managerial aspects of scientific jobs in industry which are not taught at university providing a deep and detailed insight into the intricacies of managing research The text is divided neatly into four sections Harnessing the Human Resource Organising for an Innovative Environment Creativity and Innovation Project Management of Innovation The author Peter Bamfield is now working as a consultant Due to his long experience in the chemical industry he was elected President of the Royal Society of Chemistry's Industrial Affairs Division and thus has a profound first hand view of staff companies and organizations in and around the industry This third edition has been revised and updated to take into account global developments and recent changes in regulatory affairs

Comprehensive Quality by Design for Pharmaceutical Product Development and Manufacture

Gintaras V. Reklaitis, Christine Seymour, Salvador García-Munoz, 2017-10-09 Covers a widespread view of Quality by Design QbD encompassing the many stages involved in the development of a new drug product The book provides a broad view of Quality by Design QbD and shows how QbD concepts and analysis facilitate the development and manufacture of high quality products QbD is seen as a framework for building process understanding for implementing robust and effective manufacturing processes and provides the underpinnings for a science based regulation of the pharmaceutical industry Edited by the three renowned researchers in the field Comprehensive Quality by Design for Pharmaceutical Product Development and Manufacture guides pharmaceutical engineers and scientists involved in product and process development as well as teachers on how to utilize QbD practices and applications effectively while complying with government regulations The material is divided into three main sections the first six chapters address the role of key technologies including process modeling process analytical technology automated process control and statistical methodology in supporting QbD and establishing the associated design space The second section consisting of seven chapters present a range of thoroughly developed case studies in which the tools and methodologies discussed in the first section are used to support specific drug substance and drug product QbD related developments The last section discussed the needs for integrated tools and reviews the status of information technology tools available for systematic data and knowledge management to support QbD and related activities Highlights Demonstrates Quality by Design QbD concepts through concrete detailed industrial case studies involving of the use of best practices and assessment of regulatory implications Chapters are devoted to applications of QbD methodology in three main processing sectors drug substance process development oral drug product manufacture parenteral product processing and solid liquid processing Reviews the spectrum of process model types and their relevance the range of state of the art real time monitoring tools and chemometrics and alternative automatic process control strategies and methods for both batch and continuous processes The role of the design space is demonstrated through specific examples and the importance of understanding the risk management aspects of design space definition is highlighted Comprehensive Quality by Design for Pharmaceutical Product Development and Manufacture is an ideal book for

practitioners researchers and graduate students involved in the development research or studying of a new drug and its associated manufacturing process **Chemical Engineering Progress** ,1999 The Chemistry of Process Development in Fine Chemical and Pharmaceutical Industry C. Someswara Rao,2004 New Scientist ,2002 Process Chemistry in the Pharmaceutical Industry, Volume 2 Kumar Gadamasetti,Tamim Braish,2007-12-10 As pharmaceutical companies strive to develop safer medicines at a lower cost they must keep pace with the rapid growth of technology and research methodologies Defying the misconception of process chemistry as mere scale up work Process Chemistry in the Pharmaceutical Industry Vol 2 Challenges in an Ever Changing Climate explor **Principles of Process Research and Chemical Development in the Pharmaceutical Industry** Oljan Repic,1998 Dr Oljan Repic clearly explains the goals and basic principles of chemical development He explores the crucial aspects of a new process that must be considered when scaling up a research synthesis to industrial levels And with the help of many case studies and vignettes he delineates each phase of the development process Key topics include qualities of an ideal process techniques for minimizing impurities criteria for cost effective synthesis of enantiopure compounds by resolutions asymmetric synthesis and the chiral pool strategy synthesis for labeling substances with hydrogen or carbon isotopes and new drug registration requirements This book is an invaluable reference for professionals as well as an important source of guidance and inspiration for young chemists considering entering the field

Chemical Engineering in the Pharmaceutical Industry Mary T. am Ende,David J. am Ende,2019-04-08 A guide to the important chemical engineering concepts for the development of new drugs revised second edition The revised and updated second edition of Chemical Engineering in the Pharmaceutical Industry offers a guide to the experimental and computational methods related to drug product design and development The second edition has been greatly expanded and covers a range of topics related to formulation design and process development of drug products The authors review basic analytics for quantitation of drug product quality attributes such as potency purity content uniformity and dissolution that are addressed with consideration of the applied statistics process analytical technology and process control The 2nd Edition is divided into two separate books 1 Active Pharmaceutical Ingredients API s and 2 Drug Product Design Development and Modeling The contributors explore technology transfer and scale up of batch processes that are exemplified experimentally and computationally Written for engineers working in the field the book examines in silico process modeling tools that streamline experimental screening approaches In addition the authors discuss the emerging field of continuous drug product manufacturing This revised second edition Contains 21 new or revised chapters including chapters on quality by design computational approaches for drug product modeling process design with PAT and process control engineering challenges and solutions Covers chemistry and engineering activities related to dosage form design and process development and scale up Offers analytical methods and applied statistics that highlight drug product quality attributes as design features Presents updated and new example calculations and associated solutions Includes contributions from leading experts in the field

Written for pharmaceutical engineers chemical engineers undergraduate and graduation students and professionals in the field of pharmaceutical sciences and manufacturing Chemical Engineering in the Pharmaceutical Industry Second Edition contains information designed to be of use from the engineer s perspective and spans information from solid to semi solid to lyophilized drug products **Chemistry and Industry** ,2004 **New Scientist and Science Journal** ,2004 *The Chemical Engineer* ,2008

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