



Pharmaceutical Manufacturing Facility Ispe Th

Michael C. Flickinger



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Good Manufacturing Practices for Pharmaceuticals Joseph D. Nally, 2016-04-19 With global harmonization of regulatory requirements and quality standards and national and global business consolidations ongoing at a fast pace pharmaceutical manufacturers suppliers contractors and distributors are impacted by continual change Offering a wide assortment of policy and guidance document references and interpretations this Sixth Edition is significantly expanded to reflect the increase of information and changing practices in CGMP regulation and pharmaceutical manufacturing and control practices worldwide An essential companion for every pharmaceutical professional this guide is updated and expanded by a team of industry experts each member with extensive experience in industry or academic settings

Manufacturing of Pharmaceutical Proteins Stefan Behme, 2009-06-01 This comprehensive introduction covers all aspects of biopharmaceutical manufacturing including legal and regulatory issues as well as costing procedures Written by a leading expert at one of the largest pharmaceutical companies worldwide this practical text is aimed at a wide audience ranging from libraries via biotech companies to students and technicians planning to enter biopharmaceutical manufacturing In addition it is well suited for academic teaching as well as internal training within larger biotech or pharmaceutical companies

Process Architecture in Biomanufacturing Facility Design Jeffery Odum, Michael C. Flickinger, 2018-01-26 Essential information for architects designers engineers equipment suppliers and other professionals who are working in or entering the biopharmaceutical manufacturing field Biomanufacturing facilities that are designed and built today are radically different than in the past The vital information and knowledge needed to design and construct these increasingly sophisticated biopharmaceutical manufacturing facilities is difficult to find in published literature and it is rarely taught in architecture or design schools This is the first book for architects and designers that fills this void Process Architecture in Biomanufacturing Facility Design provides information on design principles of biopharmaceutical manufacturing facilities that support emerging innovative processes and technologies use state of the art equipment are energy efficient and sustainable and meet regulatory requirements Relying on their many years of hands on design and operations experience the authors emphasize concepts and practical approaches toward design construction and operation of biomanufacturing facilities including product process facility relationships closed systems and single use equipment aseptic manufacturing considerations design of biocontainment facility and process based laboratory and sustainability considerations as well as an outlook on the facility of the future Provides guidelines for meeting licensing and regulatory requirements for biomanufacturing facilities in the U S A and WHO especially in emerging global markets in India China Latin America and the Asia Pacific regions Focuses on innovative design and equipment to speed construction and time to market increase energy efficiency and reduce footprint construction and operational costs as well as the financial risks associated with construction of a new facility prior to the approval of the manufactured products by regulatory agencies Includes many diagrams that clarify the design approach

Process Architecture in Biomanufacturing Facility Design is an ideal text for professionals involved in the design of facilities for manufacturing of biopharmaceuticals and vaccines biotechnology and life science industry including architects and designers of industrial facilities construction equipment vendors and mechanical engineers It is also recommended for university instructors advanced undergraduates and graduate students in architecture industrial engineering mechanical engineering industrial design and industrial interior design

Containment in the Pharmaceutical Industry James P. Wood, 2020-03-26 Delivering an encompassing overview of the factors varieties and applications determining product containment this concise reference provides authoritative information on containment processes It reviews the historical context definition evolution and application of containment technology analyzes a variety of containment techniques in new

Good Manufacturing Practices for Pharmaceuticals, Seventh Edition Graham P. Bunn, 2019-02-04 This book provides insight into the world of pharmaceutical quality systems and the key elements that must be in place to change the business and organizational dynamics from task oriented procedure based cultures to truly integrated quality business systems that are self detecting and correcting Chapter flow has been changed to adopt a quality systems organization approach and supporting chapters have been updated based on current hot topics including the impact of the worldwide supply chain complexity and current regulatory trends

Pharmaceutical Manufacturing Handbook Shayne Cox Gad, 2008-03-17

This handbook features contributions from a team of expert authors representing the many disciplines within science engineering and technology that are involved in pharmaceutical manufacturing They provide the information and tools you need to design implement operate and troubleshoot a pharmaceutical manufacturing system The editor with more than thirty years experience working with pharmaceutical and biotechnology companies carefully reviewed all the chapters to ensure that each one is thorough accurate and clear

Good Design Practices for GMP Pharmaceutical Facilities Terry Jacobs, Andrew A. Signore, 2016-08-19 This revised publication serves as a handy and current reference for professionals engaged in planning designing building validating and maintaining modern cGMP pharmaceutical manufacturing facilities in the U S and internationally The new edition expands on facility planning with a focus on the ever growing need to modify existing legacy facilities and on current trends in pharmaceutical manufacturing which include strategies for sustainability and LEED building ratings All chapters have been re examined with a fresh outlook on current good design practices

Continuous Processing in Pharmaceutical Manufacturing Ganapathy Subramanian, 2015-02-09 With contributions from biotechnologists and bioengineers this ready reference describes the state of the art in industrial biopharmaceutical production with a strong focus on continuous processes Recent advances in single use technology as well as application guidelines for all types of biopharmaceutical products from vaccines to antibodies and from bacterial to insect to mammalian cells are covered The efficiency robustness and quality control of continuous production processes for biopharmaceuticals are reviewed and compared to traditional batch processes for a range of different production systems

GMP Compliance,

Productivity, and Quality Vinay Bhatt,1998-06-30 Written by twenty eight experts filled with recommendations that can immediately be put into action this book provides the strategies and tactics required to link and harmonize manufacturing processes with GMP to achieve optimum operability and cost effective regulatory compliance Drawn from name brand and generic companies and regulatory and co Reinraumtechnik Lothar Gail,Udo Gommel,Hans-Peter Hortig,2012-02-03 Vom Mobiltelefon ber Kraftfahrzeugtechnik und Mikroelektronik bis hin zu modernen Arzneimitteln ist Reinraumtechnik berall dort anzutreffen wo Produktentwicklung und herstellung gestiegenen Qualit tsanforderungen gen gen m ssen Die Neuauflage des Buches bringt neue Anwendungen und neue Methoden aktuelle Ergebnisse der nationalen VDI und internationalen Reinraumkongresse ICCCS sowie neue Reinraum Regulierungen der Pharmazie EC GMP FDA und neue Richtlinien VDI 2083 und ISO 14644 Das Spektrum der St reinfl sse die durch Reinraumtechnik kontrolliert werden m ssen erweitert sich st ndig Themen wie Biokontamination Molekulare Kontamination Elektrostatik Reinraumtauglichkeit und Isolorttechnik gewinnen weiter an Gewicht Das Buch mit seiner breiten Darstellung aller wichtigen Themenbereiche soll dem Anwender zugleich als Kompass und Ratgeber dienen Es richtet sich an die Nutzer der Reinraumtechnik in allen Bereichen der Forschung und Industrie sowie an die Planer reinraumtechnischer Einrichtungen und die Hersteller von Ger ten und Ausr stungen Pharmaceutical Quality by Design Walkiria S. Schlindwein,Mark Gibson,2018-01-05 A practical guide to Quality by Design for pharmaceutical product development Pharmaceutical Quality by Design A Practical Approach outlines a new and proven approach to pharmaceutical product development which is now being rolled out across the pharmaceutical industry internationally Written by experts in the field the text explores the QbD approach to product development This innovative approach is based on the application of product and process understanding underpinned by a systematic methodology which can enable pharmaceutical companies to ensure that quality is built into the product Familiarity with Quality by Design is essential for scientists working in the pharmaceutical industry The authors take a practical approach and put the focus on the industrial aspects of the new QbD approach to pharmaceutical product development and manufacturing The text covers quality risk management tools and analysis applications of QbD to analytical methods regulatory aspects quality systems and knowledge management In addition the book explores the development and manufacture of drug substance and product design of experiments the role of excipients multivariate analysis and include several examples of applications of QbD in actual practice This important resource Covers the essential information about Quality by Design QbD that is at the heart of modern pharmaceutical development Puts the focus on the industrial aspects of the new QbD approach Includes several illustrative examples of applications of QbD in practice Offers advanced specialist topics that can be systematically applied to industry Pharmaceutical Quality by Design offers a guide to the principles and application of Quality by Design QbD the holistic approach to manufacturing that offers a complete understanding of the manufacturing processes involved in order to yield consistent and high quality products Containment Technology

Hans-Jürgen Bässler, Frank Lehmann, 2013-10-01 This book covers all aspects of containment technology in depth and the latest developments in this exciting field are introduced This book is a key publication to planning engineers production managers and those interested in getting a picture of the different applications of the isolator technology References on literature laws norms and guidelines will support the reader to become acquainted with the containment technology

Downstream Industrial Biotechnology Michael C. Flickinger, 2013-07-17 DOWNSTREAM INDUSTRIAL BIOTECHNOLOGY An affordable easily accessible desk reference on biomanufacturing focused on downstream recovery and purification Advances in the fundamental knowledge surrounding biotechnology novel materials and advanced engineering approaches continue to be translated into bioprocesses that bring new products to market at a significantly faster pace than most other industries Industrial scale biotechnology and new manufacturing methods are revolutionizing medicine environmental monitoring and remediation consumer products food production agriculture and forestry and continue to be a major area of research The downstream stage in industrial biotechnology refers to recovery isolation and purification of the microbial products from cell debris processing medium and contaminating biomolecules from the upstream process into a finished product such as biopharmaceuticals and vaccines Downstream process design has the greatest impact on overall biomanufacturing cost because not only does the biochemistry of different products e g peptides proteins hormones antibiotics and complex antigens dictate different methods for the isolation and purification of these products but contaminating byproducts can also reduce overall process yield and may have serious consequences on clinical safety and efficacy Therefore downstream separation scientists and engineers are continually seeking to eliminate or combine unit operations to minimize the number of process steps in order to maximize product recovery at a specified concentration and purity Based on Wiley's Encyclopedia of Industrial Biotechnology Bioprocess Bioseparation and Cell Technology this volume features fifty articles that provide information on down stream recovery of cells and protein capture process development and facility design equipment PAT in downstream processes downstream cGMP operations and regulatory compliance It covers Cell wall disruption and lysis Cell recovery by centrifugation and filtration Large scale protein chromatography Scale down of biopharmaceutical purification operations Lipopolysaccharide removal Porous media in biotechnology Equipment used in industrial protein purification Affinity chromatography Antibody purification monoclonal and polyclonal Protein aggregation precipitation and crystallization Freeze drying of biopharmaceuticals Biopharmaceutical facility design and validation Pharmaceutical bioburden testing Regulatory requirements Ideal for graduate and advanced undergraduate courses on biomanufacturing biochemical engineering biopharmaceutical facility design biochemistry industrial microbiology gene expression technology and cell culture technology Downstream Industrial Biotechnology is also a highly recommended resource for industry professionals and libraries

Microbial Limit and Bioburden Tests Lucia Clontz, 2008-10-14 In recent years the field of pharmaceutical microbiology has experienced numerous technological advances accompanied by the

publication of new and harmonized compendial methods It is therefore imperative for those who are responsible for monitoring the microbial quality of pharmaceutical biopharmaceutical products to keep abreast of the latest c 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 **Spray Drying of Vaccines** Cordin Arpagaus,2023-04-03 This book addresses the stabilization of vaccine powders by spray drying and provides an overview of the current state of the art on a laboratory and industrial scale The book aims to familiarize readers with the advances in vaccine spray drying technology to understand its application potential better In particular the book addresses the design of aseptic spray dryers parameters affecting the spray drying process sterile powder processing cleaning procedures and powder filling In addition different drying technologies for the production of dry powder vaccines are compared to discuss the unique capabilities of spray drying as a particle technology for vaccines Special attention is given to research studies on spray dried vaccines published over the past 30 years with key findings from laboratory research to clinical trials Potential applications of spray dried vaccines and routes of administration are presented in detail Finally an outlook is given on how close the aseptic spray drying of vaccines is to the market and the challenges that need to be overcome to be commercially successful The book s target audience is academics researchers vaccine developers industry experts students and possibly funders including government agencies who are active in the field In addition the book is a reference source for those involved in the vaccine formulation and biopharmaceutical processing industry **Hygienegerechte Apparate und Anlagen** Gerhard Hauser,2012-04-16 In der Lebensmittel der kosmetischen pharmazeutischen und chemischen Industrie sowie in der Biotechnologie ist zum Schutz vor Kontamination ein hygienischer Produktionsprozess sehr wichtig Sichere Qualit tsprodukte

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Flow Chemistry Santiago V Luis, Eduardo Garcia-Verdugo, 2019-09-18 Historically pharmaceutical and fine chemical products have been synthesised using batch methods but increasingly chemists are looking towards flow chemistry as a greener and more efficient alternative In flow chemistry reactions are performed in a reactor with the reactants pumped through it It has the benefit of being easily scaled up and it is straightforward to integrate synthesis workup and analysis into one system Flow chemistry is considered a greener alternative to batch chemistry because it is easier to control and minimise hazardous intermediates and by products There is significant interest in the use of flow chemistry both in the lab and on an industrial scale Flow Chemistry provides an update on recent advances that have been made in the field Particular emphasis is given to the new integrated approaches that bring together several elements to implement flow processes as a regular green chemistry tool for the chemical industries With chapter contributions from several well known experts in the field this book is a valuable resource for researchers working in green chemistry and synthesis chemical engineers and industrial chemists working in the pharmaceutical and fine chemicals industries

Good Quality Practice (GQP) in Pharmaceutical Manufacturing: A Handbook Jordi Botet, 2015-09-28 Pharmaceutical manufacturing can be viewed as a supply chain which spans from the production and purchase of the starting and packaging materials through the manufacture of dosage forms until the safe reception of the finished product by the patient The entire chain comprises of several processes auditing materials purchase procurement production storage distribution quality control and quality assurance The quality standard for pharmaceutical production is current good manufacturing practice CGMP which is applied within the frame of a pharmaceutical quality system PQS This implementation however requires a scientific approach and has to take into account several elements such as risk assessment life cycle patient protection among other factors Hence pharmaceutical manufacturing is a complex subject in terms of regulation given the technical and managerial requirements This comprehensive handbook describes CGMP for new professionals who want to understand and apply the elements which build up pharmaceutical quality assurance The book gives details about basic quality control requirements such as risk management quality hazards and management systems documentation clean environments personnel training and gives guidelines on regulatory aspects This is an ideal handbook for undergraduates studying pharmaceutical or

industrial manufacturing and supply chains as well for entrepreneurs and quality control professionals seeking to learn about CGMP standards and implementing quality assurance systems in the pharmaceutical sector

Parenteral Medications, Fourth Edition Sandeep Nema, John D. Ludwig, 2019-07-19 Parenteral Medications is an authoritative comprehensive reference work on the formulation and manufacturing of parenteral dosage forms effectively balancing theoretical considerations with practical aspects of their development Previously published as a three volume set all volumes have been combined into one comprehensive publication that addresses the plethora of changes in the science and considerable advances in the technology associated with these products and routes of administration Key Features Provides a comprehensive reference work on the formulation and manufacturing of parenteral dosage forms Addresses changes in the science and advances in the technology associated with parenteral medications and routes of administration Includes 13 new chapters and updated chapters throughout Contains the contributors of leading researchers in the field of parenteral medications Uses full color detailed illustrations enhancing the learning process The fourth edition not only reflects enhanced content in all the chapters but also highlights the rapidly advancing formulation processing manufacturing parenteral technology including advanced delivery and cell therapies The book is divided into seven sections Section 1 Parenteral Drug Administration and Delivery Devices Section 2 Formulation Design and Development Section 3 Specialized Drug Delivery Systems Section 4 Primary Packaging and Container Closure Integrity Section 5 Facility Design and Environmental Control Section 6 Sterilization and Pharmaceutical Processing Section 7 Quality Testing and Regulatory Requirements

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