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book's user-friendly diagrams and other clear graphics illustrate key ideas throughout each protocol, offering a bird's-eye view of what is coming next-and they quickly guide you through the equipment validation. The author provides a thorough understanding of how to prepare, test, and complete equipment qualification protocols. He also explains how to perform qualification testing and whether to test the equipment for a worst case scenario. No other book deals exclusively with the key issues of equipment qualification and process validation for pharmaceutical process equipment-and provides instructions on how to achieve it. With pragmatic approach, this book includes 38 useful protocol templates, already completed, that provide instant answers to most protocol writing and testing questions. These templates cover specific equipment types, such, and provide accurate, industry acceptable equipment qualification protocols. Step-by-step, they show how to qualify each piece of equipment, and they provide a check for readers own protocols.

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Spanning every critical element of validation for any pharmaceutical, diagnostic, medical device or equipment, and biotech product, this Second Edition guides readers through each step in the correct execution of validating processes required for non-aseptic and aseptic pharmaceutical production. With 14 exclusive environmental performance evaluati

The Master Validation Plan provides a roadmap to management for on-time start-up of facility operations, and validation of existing facilities, in compliance with GMP requirements. The lack of a comprehensive Master Validation Plan and well-documented validation procedures is the main reason that new drug, medical device, medical equipment, and related product applications are rejected by the FDA. In fact, only about 2% of the applications submitted by foreign pharmaceutical companies are approved each year. This thorough guide provides the needed solutions and guidance for both foreign and U.S. companies to achieve FDA compliance and authorization to market their products in the United States. Pharmaceutical Master Validation Plan: The Ultimate Guide to FDA, GMP, and GLP Compliance will allow you to more easily achieve satisfactory inspections, new medical product approval, minimize non-conformance, reduce rework and rejected lots, and avoid recall lots by developing and managing a Master Validation Plan. The accompanying CD allows users to input the template plan into their computers and tailor it to incorporate additional regulatory requirements specific to individual companies worldwide and print the required documents. Together, the book and CD contain everything required to develop and execute a successful Master Validation Plan based on FDA guidelines for the pharmaceutical industry, and allows the templates to be extended to diagnostic products, medical device, medical equipment, and biotech industry products.

This Second Edition discusses ways to improve pharmaceutical product quality while achieving compliance with global regulatory standards. With comprehensive step-by-step instructions, practical recommendations, standard operating procedures (SOPs), checklists, templates, and graphics for easy incorporation in a laboratory. This title serves as a complete source to the subject, and explains how to develop and implement a validation strategy for routine, non-routine, and standard analytical methods, covering the entire equipment, hardware, and software qualification process. It also provides guidance on qualification of certified standards, in-house reference materials, and people qualification, as well as internal and third party laboratory audits and inspections.

This book is intended to serve as a source of practical, technicalinformation for those persons in the biotechnology industry. Casestudies and/ or actual industry examples are used to support the textwherever possible. While much of the material contained within thistext is equally applicable to nonbiopharmaceutical processes, theemphasis has been focused directly upon biopharmaceuticalmanufacturing.Section I provides an in-depth analysis of the design concepts thatlead to cleanable equipment. Also covered in the tirst section arecleaning mechanisms and cleaning systems. The first section isparticularly useful to those persons faced with the task of designingsystems that will be cleaned and also provides the biochemicaloockground of the mechanisms associated with the removal of commonbiotechnology soils.Section II focuses on cleaning validation concepts. While thematerial is equally useful for single product cleaning, emphasis isplaced upon multiproduct cleaning validation. Included in Section IIare general validation principles as thex apply to cleaning validation,detailed analxsis of cleaning process validation, sampling techniques,analytical methods and acceptance criteria. The material in this sectionwill be useful to anyone responsible for the development of a cleaningvalidation program.The final section, Section Ill, provides an overview of multiproductbiotechnology manufacturing procedures. Included in this section is ananalysis of tne risk-to-benefit scenarios associated with the various formsof product manufacturing, analysis of changeover programs, ~uipmentconsiderations, and material transfer systems as they are affected bymultiproduct manufacturing strategies.

Adopting a practical approach, the authors provide a detailed interpretation of the existing regulations (GMP, ICH), while also discussing the appropriate calculations, parameters and tests. The book thus allows readers to validate the analysis of pharmaceutical compounds while complying with both the regulations as well as the industry demands for robustness and cost effectiveness. Following an introduction to the basic parameters and tests in pharmaceutical validation, including specificity, linearity, range, precision, accuracy, detection and quantitation limits, the text focuses on a life-cycle approach to validation and the integration of validation into the whole analytical quality assurance system. The whole is rounded off

with a look at future trends. With its first-hand knowledge of the industry as well as regulating bodies, this is an invaluable reference for analytical chemists, the pharmaceutical industry, pharmaceutists, QA officers, and public authorities.

Thoroughly revised to include the latest industry developments, the Second Edition presents a comprehensive overview of computer validation and verification principles and how to put them into practice. To provide the current best practice and guidance on identifying and implementing improvements for computer systems, the text extensively reviews r

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.

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