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## **Pharmaceutical Production 2003**

this title is a general introduction aimed at all those involved in the engineering stages required for the manufacture of the active ingredient and its dosage forms

## **Sterile Product Manufacturing Facilities 2011**

with step by step methods of drug production and knowledge of major unit operations and key concepts of pharmaceutical engineering this guide will help to improve communication among the varied professionals working in the pharmaceutical industry key features revision of a bestseller updates include recent advances in the field to keep pharmac

## **ISPE Baseline Pharmaceutical Engineering Guide for New and Renovated Facilities 2013**

a practical guide to all key the elements of pharmaceuticals and biotech manufacturing and design engineers working in the pharmaceutical and biotech industries are routinely called upon to handle operational issues outside of their fields of expertise traditionally the competencies required to fulfill those tasks were achieved piecemeal through years of self teaching and on the job experience until now practical pharmaceutical engineering provides readers with the technical information and tools needed to deal with most common engineering issues that can arise in the course of day to day operations of pharmaceutical biotech research and manufacturing engineers working in pharma biotech wear many hats they are involved in the conception design construction and operation of research facilities and manufacturing plants as well as the scale up manufacturing packaging and labeling processes they have to implement fda regulations validation assurance quality control and good manufacturing practices gmp compliance measures and to maintain a high level of personal and environmental safety this book provides readers from a range of engineering specialties with a detailed blueprint and the technical knowledge needed to tackle those critical responsibilities with confidence at minimum after reading this book readers will have the knowledge needed to constructively participate in contractor user briefings provides pharmaceutical industry professionals with an overview of how all the parts fit together and a level of expertise that can take years of on the job experience to acquire addresses topics not covered in university courses but which are crucial to working effectively in the pharma biotech industry fills a gap in the literature providing important information on pharmaceutical operation issues required for meeting regulatory guidelines plant support design and project engineering covers the basics of hvac systems water systems electric systems reliability maintainability and quality assurance relevant to pharmaceutical engineering practical pharmaceutical engineering is an indispensable tool of the trade for chemical engineers mechanical engineers and pharmaceutical engineers employed by pharmaceutical and biotech companies engineering firms and consulting firms it also is a must read for engineering students pharmacy students chemistry students and others considering a career in pharmaceuticals

## **Baseline Pharmaceutical Engineering Guide for New and Renovated Facilities: Oral solid dosage forms 2007**

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 apis 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

## **ISPE Good Practice Guide 2008**

this is the second volume in a four volume series aimed at guiding the pharmaceutical industry toward sustainability after analyzing and exposing some of the backward and ill conceived notions that guide the present state of the industry this volume presents key theories and new groundbreaking solutions for re thinking the processes involved in the engineering of pharmaceuticals and offers a fundamental paradigm shift the 4 volumes in this ambitious project are volume 1 practice analysis and methodology volume 2 theories and solutions volume 3 applications for mental disorder treatments volume 4 applications for physical disorder treatments this ground breaking set of books is a unique and state of the art study that only appears here within these pages a fascinating study for the engineer scientist and pharmacist working in the pharmaceutical industry and interested in sustainability it is also a valuable textbook for students and faculty studying these subjects

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## **ISPE Baseline® Guide: Volume 7 - Risk-Based Manufacture of**

**Pharmaceutical Products (Risk-MaPP) 2011-04-15**

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