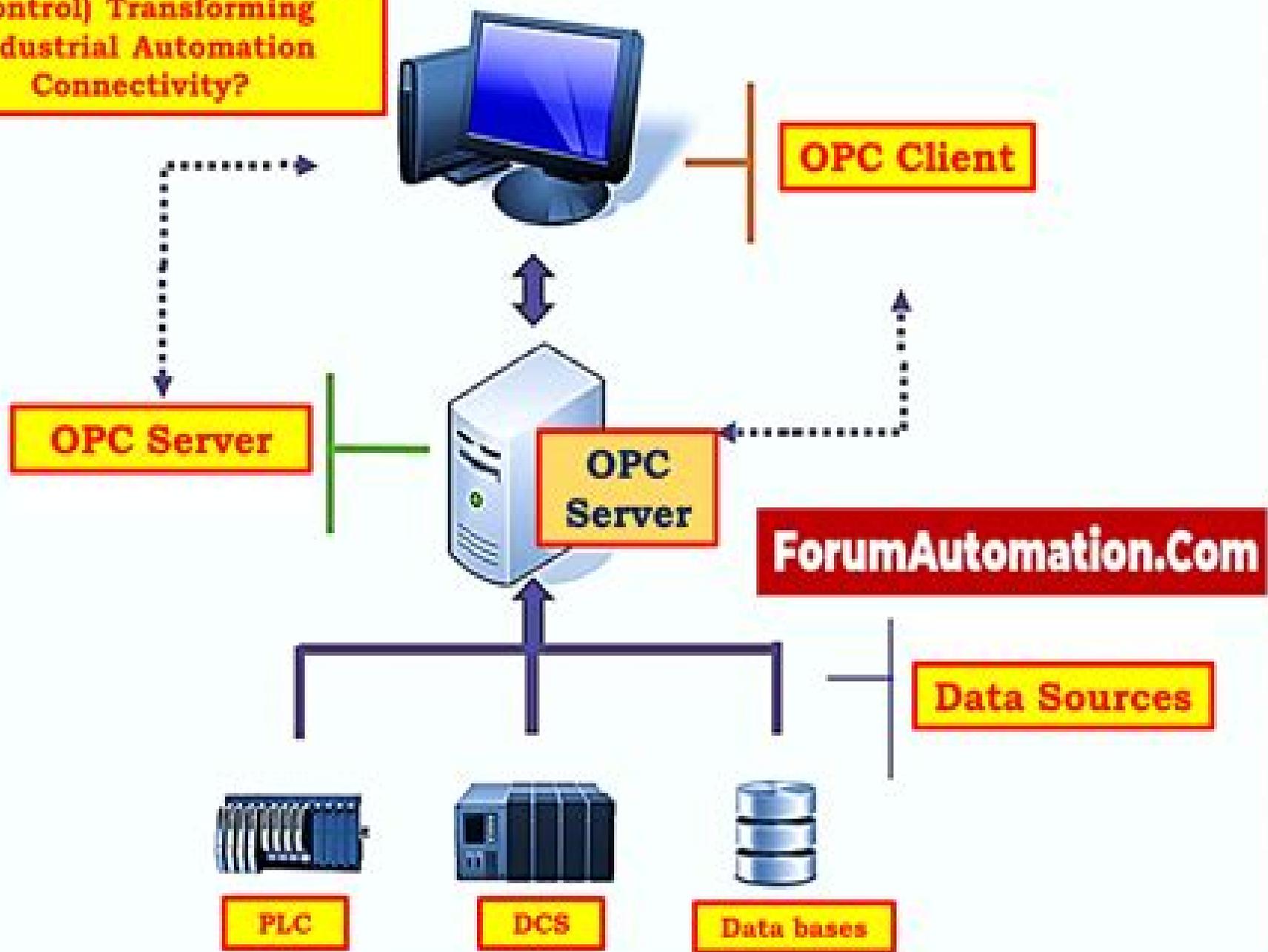


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Process Systems Engineering for Pharmaceutical Manufacturing

Ravendra Singh, Zhihong Yuan, 2018-03-16 Process Systems Engineering for Pharmaceutical Manufacturing From Product Design to Enterprise Wide Decisions Volume 41 covers the following process systems engineering methods and tools for the modernization of the pharmaceutical industry computer aided pharmaceutical product design and pharmaceutical production processes design synthesis modeling and simulation of the pharmaceutical processing unit operation integrated flowsheets and applications for design analysis risk assessment sensitivity analysis optimization design space identification and control system design optimal operation control and monitoring of pharmaceutical production processes enterprise wide optimization and supply chain management for pharmaceutical manufacturing processes Currently pharmaceutical companies are going through a paradigm shift from traditional manufacturing mode to modernized mode built on cutting edge technology and computer aided methods and tools Such shifts can benefit tremendously from the application of methods and tools of process systems engineering Introduces Process System Engineering PSE methods and tools for discovering developing and deploying greener safer cost effective and efficient pharmaceutical production processes Includes a wide spectrum of case studies where different PSE tools and methods are used to improve various pharmaceutical production processes with distinct final products Examines the future benefits and challenges for applying PSE methods and tools to pharmaceutical manufacturing

Process Control, Electrical & Information Conference ,1998

Continuous Manufacturing of Pharmaceuticals Peter Kleinebudde, Johannes Khinast, Jukka Rantanen, 2024-10-28 A comprehensive look at existing technologies and processes for continuous manufacturing of pharmaceuticals As rising costs outpace new drug development the pharmaceutical industry has come under intense pressure to improve the efficiency of its manufacturing processes Continuous process manufacturing provides a proven solution Among its many benefits are minimized waste energy consumption and raw material use the accelerated introduction of new drugs the use of smaller production facilities

with lower building and capital costs the ability to monitor drug quality on a continuous basis and enhanced process reliability and flexibility Continuous Manufacturing of Pharmaceuticals prepares professionals to take advantage of that exciting new approach to improving drug manufacturing efficiency This book covers key aspects of the continuous manufacturing of pharmaceuticals The first part provides an overview of key chemical engineering principles and the current regulatory environment The second covers existing technologies for manufacturing both small molecule based products and protein peptide products The following section is devoted to process analytical tools for continuously operating manufacturing environments The final two sections treat the integration of several individual parts of processing into fully operating continuous process systems and summarize state of art approaches for innovative new manufacturing principles Brings together the essential know how for anyone working in drug manufacturing as well as chemical food and pharmaceutical scientists working on continuous processing Covers chemical engineering principles regulatory aspects primary and secondary manufacturing process analytical technology and quality by design Contains contributions from researchers in leading pharmaceutical companies the FDA and academic institutions Offers an extremely well informed look at the most promising future approaches to continuous manufacturing of innovative pharmaceutical products Timely comprehensive and authoritative Continuous Manufacturing of Pharmaceuticals is an important professional resource for researchers in industry and academe working in the fields of pharmaceuticals development and manufacturing **CERN.**,2004 Smart Manufacturing Masoud Soroush,Michael Baldea,Thomas F. Edgar,2020-08-04 Research efforts in the past ten years have led to considerable advances in the concepts and methods of smart manufacturing Smart Manufacturing Concepts and Methods puts these advances in perspective showing how process industries can benefit from these new techniques The book consolidates results developed by leading academic and industrial groups in the area providing a systematic comprehensive coverage of conceptual and methodological advances made to date Written by leaders in the field from around the world Smart Manufacturing Concepts and Methods is essential reading for graduate students researchers process engineers and managers It is complemented by a companion book titled Smart Manufacturing Applications and Case Studies which covers the applications of smart manufacturing concepts and methods in process industries and beyond Takes a process systems engineering approach to design monitoring and control of smart manufacturing systems Brings together the key concepts and methods of smart manufacturing including the advances made in the past decade Includes coverage of computation methods for process optimization control and safety as well as advanced modelling techniques *Machine Tools Production Systems 3* Christian Brecher,Manfred Weck,2021-12-13 The first part of this third volume focuses on the design of mechatronic components in particular the feed drives of machine tools used to generate highly dynamic drive movements Engineering guides for the selection and design of important machine components the control technology of feed drives and the measuring systems required for position capture are presented Another focus is on process and diagnostic

equipment for manufacturing machines and systems The second part describes control concepts including programming methods for various applications of modern production systems Programmable logic controllers PLC numerical controllers NC and robot controllers RC are part of these presentations In the context of automated manufacturing systems the various levels of the automation pyramid and the importance of control systems are also outlined Finally the volume deals with the engineering of machines and plants The German Machine Tools and Production Systems Compendium has been completely revised The previous five volume series has been condensed into three volumes in the new ninth edition with colored technical illustrations throughout This first English edition is a translation of the German ninth edition

How to Design and Implement Powder-to-Tablet Continuous Manufacturing Systems Fernando Muzzio, Sarang Oka, 2022-03-29 How to Design and Implement Powder to Tablet Continuous Manufacturing Systems provides a comprehensive overview on the considerations necessary for the design of continuous pharmaceutical manufacturing processes The book covers both the theory and design of continuous processing of associated unit operations along with their characterization and control In addition it discusses practical insights and strategies that the editor and chapter authors have learned Chapters cover Process Analytical Technology PAT tools and the application of PAT data to enable distributed process control With numerous case studies throughout this valuable guide is ideal for those engaged in or learning about continuous processing in pharmaceutical manufacturing Discusses the development of strategy blueprints in the design of continuous processes Shows how to create process flowsheet models from individual unit operation models Includes a chapter on characterization methods for materials the use of statistical methods to analyze material property data and the use of material databases Covers the evolving regulatory expectations for continuous manufacturing Provides readers with ways to more effectively navigate these expectations

InTech ,2003 **The Petroleum Economist** ,2001 **Control Solutions** ,2001
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