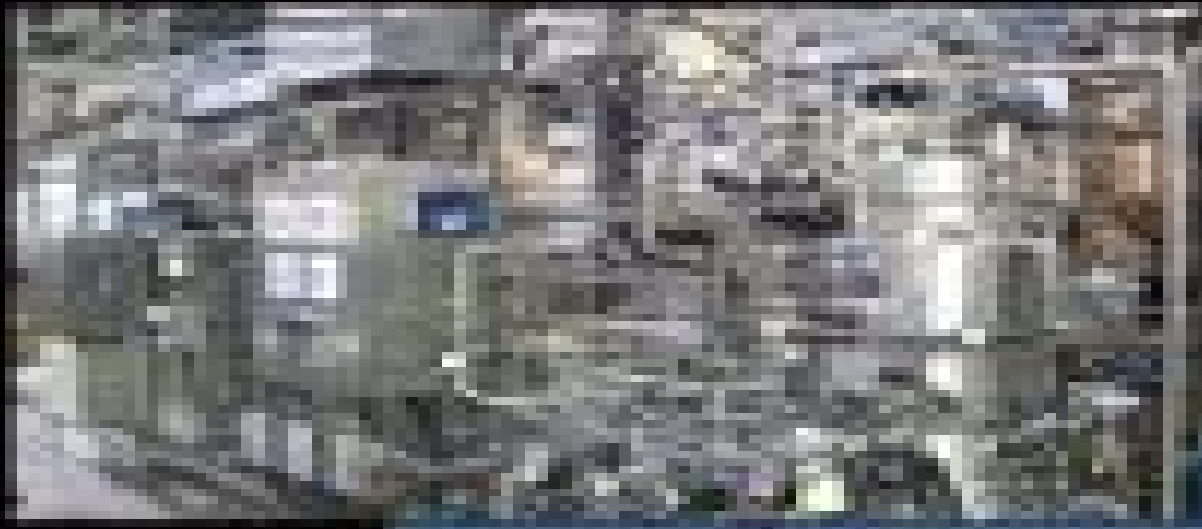


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1st and 2nd editions



Author: Dr. Douglas

Dr. Douglas M. Himmel

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Analysis, Synthesis and Design of Chemical Processes Richard Turton, Richard C. Bailie, Wallace B. Whiting, Joseph A. Shaeiwitz, 2008-12-24 The Leading Integrated Chemical Process Design Guide Now with New Problems New Projects and More More than ever effective design is the focal point of sound chemical engineering Analysis Synthesis and Design of Chemical Processes Third Edition presents design as a creative process that integrates both the big picture and the small details and knows which to stress when and why Realistic from start to finish this book moves readers beyond classroom exercises into open ended real world process problem solving The authors introduce integrated techniques for every facet of the discipline from finance to operations new plant design to existing process optimization This fully updated Third Edition presents entirely new problems at the end of every chapter It also adds extensive coverage of batch process design including realistic examples of equipment sizing for batch sequencing batch scheduling for multi product plants improving production via intermediate storage and parallel equipment and new optimization techniques specifically for batch processes Coverage includes Conceptualizing and analyzing chemical processes flow diagrams tracing process conditions and more Chemical process economics analyzing capital and manufacturing costs and predicting or assessing profitability Synthesizing and optimizing chemical processing experience based principles BFD PFD simulations and more Analyzing process performance via I O models performance curves and other tools Process troubleshooting and debottlenecking Chemical engineering design and society ethics professionalism health safety and new green engineering techniques Participating successfully in chemical engineering design teams Analysis Synthesis and Design of Chemical Processes Third Edition draws on nearly 35 years of innovative chemical engineering instruction at West Virginia University It includes suggested curricula for both single semester and year long design courses case studies and design projects with practical applications and appendixes with current equipment cost data and preliminary design information for eleven chemical processes including seven brand new to this edition

Automation Applications in Bio-pharmaceuticals George Buckbee (P.E.), Joseph Alford (Ph. D.), 2008 A guide for engineers and designers new to the field of bio pharmaceutical process control For the experienced automation professional it outlines the unique design and application issues for the bio pharmaceutical industry For those already familiar with this industry it provides specific advice for automating these processes

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The British National Bibliography Arthur James Wells, 2004

Chemical and Bio-process Control James B. Riggs, Mohammed Nazmul Karim, 2007 Key features Industrially relevant approach to chemical and bio process control Fully revised edition with substantial enhancements to the theoretical coverage of the subject Increased number and variety of examples Extensively revised homework problems with degree of difficulty rating added Expanded and enhanced chapter on model predictive control Self assessment questions and problems at the end of most sections with

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industries added to the chapter on control loop hardware Significant proportion of examples and homework problems in the text deal with bio processes Section on troubleshooting bio process control systems included Bio related process models added to the modeling chapter Supplemental material Visual basic simulator of process models developed in text Solutions manual Set of PowerPoint lecture slides Collection of process control exams All supplemental material can be found at www.che.ttu.edu/pcoc/software **Pennsylvania Business-to-business Sales & Marketing Directory**, 2002 Process Systems Analysis and Control Steven E. LeBlanc, Donald Coughanowr, 2009 Process Systems Analysis and Control third edition retains the clarity of presentation for which this book is well known It is an ideal teaching and learning tool for a semester long undergraduate chemical engineering course in process dynamics and control It avoids the encyclopedic approach of many other texts on this topic Computer examples using MATLAB and Simulink have been introduced throughout the book to supplement and enhance standard hand solved examples These packages allow the easy construction of block diagrams and quick analysis of control concepts to enable the student to explore what if type problems that would be much more difficult and time consuming by hand

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