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based on the laws of conservation  
of mass, energy and momentum

The balance equation 1. Mass

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3. Momentum Balance (Newton ' s  
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Out Rate of Production = - +



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Process dynamics and control is a vast subject, profoundly important for maximizing value in plant operations, but unfortunately often

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neglected by undergraduate students. This book by three of the most illustrious professors of chemical engineering distills their expertise and wisdom, as teachers with about 100 years combined teaching experience, into a highly accessible and cogent textbook.

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to illustrate key theoretical concepts. New exercises are integrated throughout several chapters to reinforce concepts. Up-to-date information is also included on real-time optimization and model predictive control to highlight the significant impact

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these techniques have on industrial practice. And chemical engineers will find two new chapters on biosystems control to gain the latest perspective in the field.

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This text offers a modern view of process control in the context of today's technology. It provides the standard material in a coherent presentation and uses a notation that is more consistent with the research literature in process control. Topics that are unique

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include a unified approach to model representations, process model formation and process identification, multivariable control, statistical quality control, and model-based control. This book is designed to be used as an introductory text for

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undergraduate courses in process dynamics and control. In addition to chemical engineering courses, the text would also be suitable for such courses taught in mechanical, nuclear, industrial, and metallurgical engineering departments. The material is

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organized so that modern concepts are presented to the student but details of the most advanced material are left to later chapters. The text material has been developed, refined, and classroom tested over the last 10-15 years at the University of Wisconsin and

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more recently at the University of Delaware. As part of the course at Wisconsin, a laboratory has been developed to allow the students hands-on experience with measurement instruments, real time computers, and experimental process dynamics and control

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concepts, as well as over 240 end-of-chapter problems, focused computational exercises and solutions for instructors.

Offering a different approach to other textbooks in the area, this book is a comprehensive

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introduction to the subject divided in three broad parts. The first part deals with building physical models, the second part with developing empirical models and the final part discusses developing process control solutions. Theory is discussed where needed to

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ensure students have a full understanding of key techniques that are used to solve a modeling problem. Hallmark Features:  
Includes worked out examples of processes where the theory learned early on in the text can be applied. Uses MATLAB simulation

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examples of all processes and modeling techniques- further information on MATLAB can be obtained from

[www.mathworks.com](http://www.mathworks.com) Includes supplementary website to include further references, worked examples and figures from the

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book This book is structured and aimed at upper level undergraduate students within chemical engineering and other engineering disciplines looking for a comprehensive introduction to the subject. It is also of use to practitioners of process control



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where the integrated approach of physical and empirical modeling is particularly valuable.

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This book is a sequel to the text Process Dynamics and Control (published by PHI Learning). The objective of this text is to introduce frontier areas of control technology with an ample number of application examples. It also introduces the simulation platform

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PCSA (Process Control System  
Analyzer) to include senior level  
worked out examples like multi-  
loop control of exothermic reactor  
and distillation column. The  
textbook includes discussions on  
state variable techniques and  
analysis MIMO systems, and

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techniques of non-linear systems treatment with extensive number of examples. A chapter has been included to discuss the industrial practice of instrumentation systems for important unit operation and processes, which ends up with the treatment on

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Plant-wide-control. The two state-of-the-art tools of computer based control, Micro-controllers and Programmable Logic Controllers (PLC), are discussed with practical application examples. A number of demonstration programs have been offered for basic

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conception development in the accompanying CD. It familiarizes students with the real task of simulation by means of simple computer programming procedure with sufficient graphic support, and helps to develop capability of handling complex dynamic

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This book is primarily intended for the postgraduate students of chemical engineering and instrumentation and control engineering. Also it will be of considerable interest to professionals engaged in handling process plant automation systems.

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KEY FEATURES • Majority of worked out examples and exercise problems are chosen from practical process applications. • A complete coverage of controller synthesis in frequency domain provides a better grasp of controller tuning. • Advanced



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