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CHEE319: Process Dynamics and Control

The equipment and schematics are presented, as they appear in real laboratory by extensive use of animation and graphics tools. The resulting value of process variable are provided to the user in an interactive mode for further analysis.

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Teaching. This course uses an open textbook University of Michigan Chemical Engineering Process Dynamics and Controls. The articles in the open textbook (wikibook) are all written by teams of 3-4 senior chemical engineering students, and are peer-reviewed by other members of the class.

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engineers with process control techniques that are used in practice while offering detailed mathematical analysis. Numerous examples and simulations are used to illustrate key theoretical concepts. New exercises are integrated throughout several chapters to reinforce concepts.

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Presenting a fresh look at process control, this new text demonstrates state-space approach shown in parallel with the traditional approach to explain the strategies used in industry today. Modern time-domain and traditional transform-domain methods are integrated throughout and explain the advantages and limitations

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of each approach; the fundamental theoretical concepts and methods of process control are applied to practical problems. To ensure understanding of the mathematical calculations involved, MATLAB® is included for numeric calculations and MAPLE for symbolic calculations, with the math behind every

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method carefully explained so that students develop a clear understanding of how and why the software tools work. Written for a one-semester course with optional advanced-level material, features include solved examples, cases that include a number of chemical reactor examples, chapter summaries, key terms,

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and concepts, as well as over 240 end-of-
chapter problems, focused computational
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This third edition provides chemical
engineers with process control techniques
that are used in practice while offering
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examples and simulations are used 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 these techniques have on industrial practice.

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And chemical engineers will find two new chapters on biosystems control to gain the latest perspective in the field.

This chemical engineering text provides a balanced treatment of the central issues in process control: process modelling, process dynamics, control systems, and

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process instrumentation. There is also full coverage of classical control system design methods, advanced control strategies, and digital control techniques. Includes numerous examples and exercises.

Offering a different approach to other

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textbooks in the area, this book is a comprehensive 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 examples of all processes and modeling techniques-

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Further information on MATLAB can be
obtained from www.mathworks.com

Includes supplementary website to include
further references, worked examples and
figures from the book This book is
structured and aimed at upper level
undergraduate students within chemical
engineering and other engineering

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Disciplines looking for a comprehensive introduction to the subject. It is also of use to practitioners of process control where the integrated approach of physical and empirical modeling is particularly valuable.

Suitable as a text for Chemical Process

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Dynamics or Introductory Chemical Process Control courses at the junior/senior level. This book aims to provide an introduction to the modeling, analysis, and simulation of the dynamic behavior of chemical processes.

This book offers a modern view of process

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control in the context of today's Solution
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chapters on the growth of educational,
scientific, and industrial research among
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main computational techniques used for

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Chemical processing. Readers will gain an understanding of the areas of process control that all chemical engineers need to know. The information is presented in a concise and readable format. The information covers the basics and also provides unique topics, such as using a unified approach to model representations,

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Statistical quality control, and model-based control. The methods presented have been successfully applied in industry to solve real problems. Designed as an advanced research guide in process dynamics and control, the book will be useful in chemical engineering courses as well as for the teaching of mechanical, nuclear,

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Industrial, and metallurgical engineering.

This is a modern first course on process control, instruments, process dynamics and stability. MS Excel spreadsheets are used in order to obtain solutions to non-linear equations when needed and closed form analytical solutions are obtained

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using Laplace transforms and other methods. The solutions are presented in 210 figures and the book has 1319 equations. With an industrial controls market size of about 150 billion dollars and a chemical process industry market size of three trillion dollars, the practitioners can use this book to master techniques of

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P, proportional, PI, Proportional Integral, PD, Proportional Derivative feedback control, feedforward control, hybrid control, adaptive control, internal model control, ratio control, filtered real proportional integral derivative control, ANNs, artificial neural networks, SPC, and statistical process control. Control

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Block diagrams are developed using MS Paint. Flavor for what is a continuous process is given using 18 process flow diagrams. Be it a feedback control of temperature in a mixing tank or a neural network design for a distillation column, the details and the big picture are both given. Pioneers who made this area

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possible include people such as Maxwell,
Galileo, Sherwood, Levenspiel, Kalman,
Laplace, Fermat, Damkholer, Newton,
Fourier, Fick, Michaelis, Menten, Monod,
Staudinger, Ziegler, Natta, Flory, Peclect,
Bode, Nyquist, Biot, Bessel, Bernoulli
(both father and son!) , Euler, Stokes,
Mach, Reynolds, Prandtl, Nusselt, Weiner,

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Hopf, Clapeyron, Clausius, Lorenz, and
Kreb, who are mentioned where their
theories were used in the analysis.

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

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uses a notation that is more consistent with the research literature in process control.

Topics that are unique 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

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as an introductory text for 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 organized so that modern concepts are

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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 more recently at the University of Delaware. As part of the course at Wisconsin, a laboratory has been

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developed to allow the students hands-on experience with measurement instruments, real time computers, and experimental process dynamics and control problems.

Process Control: Modeling, Design, and Simulation is the first complete introduction to process control that fully

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Dynamics Control Solution
integrates software tools-helping you
master critical techniques hands-on, using
MATLAB-based computer simulations.

Author B. Wayne Bequette includes
process control diagrams, dynamic
modeling, feedback control, frequency
response analysis techniques, control loop
tuning, and start-to-finish chemical

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