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timely as there are
only very few texts
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subject in a unified
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overview of batch
reaction and
separation

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Processing. In particular there is a comprehensive treatment of batch separation processes that extends over nine chapters."--Dominique Bonvin ...

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processing has
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typically leads to
further interactive
exploration,
provides the

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modeling-ready data for machine learning, or writes the data to a data store that is optimized for analytics and visualization.

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and automated transaction processing, as contrasted to interactive online transaction processing(OLTP) applications. The extract, transform, load(ETL) step in populating data warehouses is inherently a batch process in most

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implementations.

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Batch processing.

The high-volume

nature of big data

often means that

solutions must

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process data files using long-running batch jobs to filter, aggregate, and otherwise prepare the data for analysis.

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Batch processing is
a technique for

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Automating and processing multiple transactions as a single group. Batch processing helps in handling tasks like payroll, end-of-month reconciliation, or ...

Although batch processing has

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existed for a long time, designing these processes and unit operations has been considered an onerous task that required computational efforts. Design of these processes is made more complex because of the time

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dependent nature of the process and the allowable flexibility. More often than not, every unit encounters optimal control problems. Therefore, traditional design books have not covered batch processing in detail. Filling this

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void, Batch Processing: Modeling and Design describes various unit operations in batch and bio-processing as well as design methods for these units. Topics include: Batch distillation operating modes and configurations

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Batch absorption operations based on the solubility difference Batch adsorption based on differential affinity of various soluble molecules to solid absorbents Batch chromatography for measuring a wide variety of thermodynamic,

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kinetic, and physico-chemical properties Batch crystallization where a phase is used to find the supersaturation at which point material crystallizes Batch drying that stresses the phase diagram of water to describe this

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operation Batch
filtration using a
porous medium or
screen to separate
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centrifugation

where centrifugal
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processes are

widely used in

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chemicals where high value, low volume products are manufactured.

Recent developments in bio-based manufacturing also favor batch processes because feed variations can be easily handled in batch processes. Further, the

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emerging area of nanomaterials manufacturing currently uses batch processes as they are low volume, high energy intensive processes. With examples, case studies, and more than 100 homework problems, this book

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describes the unit operations in batch and bioprocessing and gives students a thorough grounding in the numerical methods necessary to solve these design problems.

Modeling and Control of Batch Processes presents

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state-of-the-art techniques ranging from mechanistic to data-driven models. These methods are specifically tailored to handle issues pertinent to batch processes, such as nonlinear dynamics and lack of online quality measurements. In

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particular, the book proposes: a novel batch control design with well characterized feasibility properties; a modeling approach that unites multi-model and partial least squares techniques; a generalization of the subspace

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identification approach for batch processes; and applications to several detailed case studies, ranging from a complex simulation test bed to industrial data. The book's proposed methodology employs statistical tools, such as

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partial least squares and subspace identification, and couples them with notions from state-space-based models to provide solutions to the quality control problem for batch processes.

Practical implementation

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issues are discussed to help readers understand the application of the methods in greater depth. The book includes numerous comments and remarks providing insight and fundamental understanding into the modeling and

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control of batch processes.

Modeling and

Control of Batch

Processes includes

many detailed

examples of

industrial relevance

that can be tailored

by process control

engineers or

researchers to a

specific

application. The

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book is also of interest to graduate students studying control systems, as it contains new research topics and references to significant recent work. Advances in Industrial Control reports and encourages the transfer of

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technology in
control
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engineering. The
rapid development
of control
technology has an
impact on all areas
of the control
discipline. The
series offers an
opportunity for
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Processing of new work in all aspects of industrial control.

Historically batch control systems were designed individually to match a specific arrangement of plant equipment. They lacked the ability to convert to

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new products without having to modify the control systems, and did not lend themselves to integration with manufacturing management systems. Practical Batch Management Systems explains how to utilize the building blocks and

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Arrange the structures of modern batch management systems to produce flexible schemes suitable for automated batch management, with the capability to be reconfigured to use the same plant equipment in different

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combinations. It introduces current best practice in the automation of batch processes, including the drive for integration with MES (Manufacturing Execution System) and ERP (Enterprise Resource Planning) products from

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major IT vendors.

References and examples are

drawn from DCS /

PLC batch control

products currently

on the market. -

Implement modern

batch management

systems that are

flexible and easily

reconfigured -

Integrate batch

management with

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Increase
productivity
through industry
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Batch chemical
processes, so often
employed in the
pharmaceutical
and agrochemical

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fields, differ significantly from standard continuous operations in the emphasis upon time as a critical factor in their synthesis and design. With this inclusive guide to batch chemical processes, the author introduces

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the reader to key aspects in mathematical modeling of batch processes and presents techniques to overcome the computational complexity in order to yield models that are solvable in near real-time. This book demonstrates

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how batch processes can be analyzed, synthesized, and designed optimally using proven mathematical formulations. The text effectively demonstrates how water and energy aspects can be incorporated within the scheduling

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framework that seeks to capture the essence of time. It presents real-life case studies where mathematical modeling of batch plants has been successfully applied.

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This book includes comprehensive treatment of dynamics and control methodology for all kinds of batch processes. It includes discussion of classical controllers such as Proportional, integral, and derivative controls,

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(PI, PID) but will also consider advanced Generic Model Control (GMC) and Artificial Neural Network (ANN) based controllers with on-line adaptation. The book emphasizes the importance of design, operation, optimization and control in

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maintaining profitability and safety in any industry using batch processing. It shows how to control these factors in order to avoid premature abortion of batches producing unwanted waste products leading to loss of revenue and

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cause for environmental concern.

Although batch processing has existed for a long time, designing these processes and unit operations has been considered an onerous task that required

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computational efforts. Design of these processes is made more complex because of the time dependent nature of the process and the allowable flexibility. More often than not, every unit encounters optimal control problems.

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Therefore, traditional design books have not covered batch processing in detail. Filling this void, Batch Processing: Modeling and Design describes various unit operations in batch and bio-processing as well as design

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Processing these units. Topics include: Batch distillation

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Batch absorption operations based on the solubility

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adsorption based on differential

affinity of various

soluble molecules

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to solid absorbents

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for measuring a

wide variety of

thermodynamic,

kinetic, and

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properties Batch

crystallization

where a phase is

used to find the

supersaturation at

which point

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material crystallizes Batch drying that stresses the phase diagram of water to describe this operation Batch filtration using a porous medium or screen to separate solids from liquids Batch centrifugation where centrifugal

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force is used for separation. Batch processes are widely used in pharmaceutical, food, and specialty chemicals where high value, low volume products are manufactured. Recent developments in bio-based manufacturing also

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favor batch processes because feed variations can be easily handled in batch processes. Further, the emerging area of nanomaterials manufacturing currently uses batch processes as they are low volume, high energy intensive

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problems, this book describes the unit operations in batch and bioprocessing and gives students a thorough grounding in the numerical methods necessary to solve

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these design
problems.

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Most available books in chemical engineering mainly pertain to continuous processes, with batch distillation relegated to a small section.

Filling this void in the chemical

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literature, Batch
Distillation:

Simulation, Optimal
Design, and

Control, Second
Edition helps

readers gain a
solid, hands-on

background in
batch processing.

The seco

Reduced time to

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market, lower production costs, and improved flexibility are critical success factors for batch processes. Their ability to handle variations in feedstock and product specifications has made them key to the operation of

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multipurpose facilities, and therefore quite popular in the specialty chemical, pharmaceutical, agricultural, and biotechnology-enabled products industries. The editors of Batch Processes analyze the design, development,

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operations, and control of batch processes — providing answers to the most challenging and pressing problems associated with their use. They present a reference unique in its coverage of both process design and operations

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management issues. Leading experts from industry and academia contribute chapters that discuss batch process scheduling, design software tools, and the latest technologies, their implementation, and their

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respective advantages. The book is presented in four parts for easy reference.

Part I, Batch Processing General Overview, introduces the topic and discusses batch processing industries. Part II, Batch Processing Design Issues,

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includes information on conceptual design and synthesis, reactors in bioindustries, distillation, crystallization, and pollution prevention. Part III, Batch Processing Management, informs the reader on modeling and

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optimization, planning and scheduling, monitoring and control, and supply chain management. Part IV, Future of Batch Processing, offers concluding remarks and contemplates the future of batch processing.

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Business Process
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Edition provides students with a comprehensive coverage of a range of analytical tools used to model, analyze, understand, and ultimately design business

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processes. The new edition of this very successful textbook includes a wide range of approaches such as graphical flowcharting tools, cycle time and capacity analyses, queuing models, discrete-event simulation, simulation-optimization,

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and data mining for process analytics.

While most textbooks on business process management either focus on the intricacies of computer simulation or managerial aspects of business processes, this textbook does

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both. It presents the tools to design business processes and management techniques on operating them efficiently. The book focuses on the use of discrete event simulation as the main tool for analyzing, modeling, and designing effective

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business processes. The integration of graphic user-friendly simulation software enables a systematic approach to create optimal designs.

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