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Repurchase Program

BEDFORD, Mass.--(BUSINESS WIRE)--Aspen Technology, Inc. (NASDAQ:AZPN), a global leader in asset optimization software, today announced that Antonio Pietri, President and Chief Executive Officer ...

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Model predictive control (MPC) is a well-established technology for ... such as crude heater, crude distillation column, vacuum heater, and vacuum distillation unit. MPC contains algorithms that allow ...

How to Use Model Predictive Control to Improve the

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Distillation Process

Tianjin University ' s School of Chemical Engineering and Technology ... s largest distillation columns. Integrating separation theories, fluid dynamics, and process analysis and optimization ...

Innovating for success

Aspen Technology, Inc. is a global provider of process optimization software solutions designed to manage and optimize plant and process design, operational performance, and supply chain planning.

AZPN.OQ - Aspen Technology, Inc. Profile | Reuters
Aspen Technology, Inc. (NASDAQ:AZPN), a global leader in

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The scale of the difficulties is revealed in research commissioned by Aspen Technology, a global leader in asset

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In the BrineMine research project, researchers from Karlsruhe Institute of Technology (KIT ... is then further

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concentrated by membrane distillation until it is saturated.
"The thermal energy ...

Sustainable mining of raw materials from thermal springs in Chile

Easy monitoring, reduction of waste and optimization of the production ... 8.8 Mitsubishi Electric Corporation 8.9 Siemens AG 8.10 Aspen Technology Inc. 8.11 Robert Bosch GmbH 8.12 Texas ...

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today that its Board of Directors has authorized a new share repurchase program ...

Aspen Technology Announces New \$300 Million Share Repurchase Program

Aspen Technology, Inc. (NASDAQ:AZPN), a global leader in asset optimization software, today announced that Antonio Pietri, President and Chief Executive Officer and Chantelle Breithaupt, Chief ...

Aspen Technology to Present at the Baird Global Consumer, Technology & Services Conference

In addition, the Fraunhofer Institute for Solar Energy Systems (ISE) takes part in the BrineMine project by

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developing the plant technology ... by membrane distillation until it is saturated.

Sustainable mining of raw materials from thermal springs in Chile

BEDFORD, Mass., Jun 14, 2021--(BUSINESS WIRE)--Aspen Technology, Inc. (NASDAQ: AZPN) ("AspenTech"), a global leader in asset optimization software, announced today that its Board of Directors has ...

This comprehensive work shows how to design and develop innovative, optimal and sustainable chemical processes by

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applying the principles of process systems engineering, leading to integrated sustainable processes with 'green' attributes. Generic systematic methods are employed, supported by intensive use of computer simulation as a powerful tool for mastering the complexity of physical models. New to the second edition are chapters on product design and batch processes with applications in specialty chemicals, process intensification methods for designing compact equipment with high energetic efficiency, plantwide control for managing the key factors affecting the plant dynamics and operation, health, safety and environment issues, as well as sustainability analysis for achieving high environmental performance. All chapters are completely rewritten or have been revised. This new edition is suitable

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as teaching material for Chemical Process and Product Design courses for graduate MSc students, being compatible with academic requirements world-wide. The inclusion of the newest design methods will be of great value to professional chemical engineers. Systematic approach to developing innovative and sustainable chemical processes Presents generic principles of process simulation for analysis, creation and assessment Emphasis on sustainable development for the future of process industries

The book presents a series of articles devoted to modeling, simulation, and optimization of processes, mainly chemical. General methods for process modeling and numerical simulation are described with flowsheeting. Population

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balances are addressed in detail with application to crystal production; energy saving is frequently optimized, including exergy analysis. The coupling between process simulation and computational fluid dynamics is studied for air classification and bubble columns. Pressure swing adsorption, reactive distillation, and nanofiltration are explained in general and applied to particular processes. The synthesis of carbon dots is solved by the design of experiments method. A safety study addresses the consequences of gas explosion.

27th European Symposium on Computer Aided Process Engineering, Volume 40 contains the papers presented at the 27th European Society of Computer-Aided Process

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Engineering (ESCAPE) event held in Barcelona, October 1-5, 2017. It is a valuable resource for chemical engineers, chemical process engineers, researchers in industry and academia, students, and consultants for chemical industries. Presents findings and discussions from the 27th European Society of Computer-Aided Process Engineering (ESCAPE) event

In addition to the three main themes: chemical reactors, distillation columns, and batch processes this volume also addresses some of the new trends in dynamics and control methodology such as model based predictive control, new methods for identification of dynamic models, nonlinear control theory and the application of neural networks to

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identification and control. Provides a useful reference source of the major advances in the field.

The 10th International Symposium on Process Systems Engineering, PSE ' 09, will be held in Salvador-Bahia, Brazil, on August 16–20, 2009. The special focus of PSE 2009 is Sustainability, Energy, and Engineering. PSE 2009 is the tenth in the triennial series of international symposia on process systems engineering initiated in 1982. The meeting brings together the worldwide PSE community of researchers and practitioners who are involved in the creation and application of computing-based methodologies for planning, design, operation, control and maintenance of chemical and petrochemical process industries. PSE ' 09 will

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look at how PSE methods and tools can support sustainable resource systems, emerging technologies in the areas of green engineering, and environmentally conscious design of industrial processes. - sustainable resource systems - emerging technologies in the areas of green engineering - environmentally conscious design of industrial processes

This book offers a comprehensive coverage of process simulation and flowsheeting, useful for undergraduate students of Chemical Engineering and Process Engineering as theoretical and practical support in Process Design, Process Simulation, Process Engineering, Plant Design, and Process Control courses. The main concepts related to process simulation and application tools are presented and

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discussed in the framework of typical problems found in engineering design. The topics presented in the chapters are organized in an inductive way, starting from the more simplistic simulations up to some complex problems.

This volume presents reports from the 1997 conference, held in Maastricht, Netherlands. The papers, covering a broad range of topics from the estimation of physical properties to the design and performance of contacting trays, demonstrate the high rate of advance in technology.

The complete step-by-step guide to mastering the basics of Aspen Plus software Used for a wide variety of important scientific tasks, Aspen Plus software is a modeling tool used

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for conceptual design, optimization, and performance monitoring of chemical processes. After more than twenty years, it remains one of the most popular and powerful chemical engineering programs used both industrially and academically. Teach Yourself the Basics of Aspen Plus, Second Edition continues to deliver important fundamentals on using Aspen Plus software. The new edition focuses on the newest version of Aspen Plus and covers the newest functionalities. Lecture-style chapters set the tone for maximizing the learning experience by presenting material in a manner that emulates an actual workshop classroom environment. Important points are emphasized through encouragement of hands-on learning techniques that direct learners toward achievement in creating effective designs

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fluidly and with confidence. Teach Yourself the Basics of Aspen Plus, Second Edition includes: Examples embedded within the text to focus the reader on specific aspects of the material being covered Workshops at the end of each chapter that provide opportunities to test the reader's knowledge in that chapter's subject matter Functionalities covered in the newest version of Aspen including the solution of a flowsheet by an equation oriented, EO approach, and the solution of problems which involve electrolyte equilibria Aspen Plus executable format as well as .txt format files containing details of the examples and the workshops as well as their solutions are provided as a download Designed with both students and professionals in mind, Teach Yourself the Basics of Aspen Plus, Second

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Edition is like having a personal professor 24/7. Its revolutionary format is an exciting way to learn how to operate this highly sophisticated software—and a surefire way for readers to get the results they expect.

This textbook presents a general multi-objective optimization framework for optimizing chemical processes by implementing a link between process simulators and metaheuristic techniques. The proposed approach is general and shows how to implement links between different process simulators such as Aspen Plus®, HYSIS®, Super Pro Designer® linked to a variety of metaheuristic techniques implemented in Matlab®, Excel®, C++, and others, eliminating the numerical complications through the

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optimization process. Furthermore, the proposed framework allows the use of thermodynamic, design and constitutive equations implemented in the process simulator to implement any process. Aimed at graduate and undergraduate students, it presents introductory chapters for process simulators and metaheuristic optimization techniques and provides several worked exercises as well as proposed exercises. In addition, accompanying tutorial videos clearly explaining the implemented methodologies are available online. Also, some Matlab® routines are included as electronic supporting material.

Advances in Gas Processing: Proceedings of the 2nd Annual Gas Processing Symposium 11-1 4 January, 2010, Doha,

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Qatar, reviews the state of knowledge in gas processing. The contributions are organized around five main themes: (i) environmental sustainability; (ii) natural gas processing technologies; (iii) energy efficiency in operations; (iv) design and safety; and (v) operational excellence. The papers on environmental sustainability cover topics such as the biogasification of waste monoethanolamine; the role of LNG in a carbon constrained world; and sustainable water management. The papers on natural gas processing technologies include the removal of acid gases from natural gas streams via membrane technology and selective control of Fischer-Tropsch synthesis hydrocarbons product distribution. The papers on energy efficiency in operations cover lifted turbulent jet flame in a cross-flow; novel hybrid

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biomass and coal processes; and the adoption of plug-in hybrid electric vehicles (PHEVs). The papers on design and safety include studies on the optimal design and operation of a GTL process and efficient design, operating, and control strategies for LNG plants. The papers on operational excellence deal with topics such as chemicals in gas processing; the monitoring and optimization of hydrocarbon separation equipment; and the inhibition of gas hydrate formation. * Provides a state-of-the-art review of gas processing technologies * Covers design, operating tools, and methodologies * Includes case studies and practical applications

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