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With this approach, the sides of a multivariable control envelope are the various constraints while inside the envelope the process is continuously moved to maximize efficiency and productivity.Because one must understand a process before one can control it (let alone optimize it), Optimization of Industrial Unit Processes discusses the 'personality' and characteristics of each process in term of its time constants, gains, and other unique features.This book provides information for ...

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optimization of industrial unit processes the term optimization means the maximizing of productivity and safety while minimizing operating costs in a fully optimized plant efficiency and productivity are continuously maximized while levels temperatures pressures or flows float within their allowable limits book jacket because one must

In Optimization of Industrial Unit Processes, the term "optimization" means the maximizing of productivity and safety while minimizing operating costs. In a fully optimized plant, efficiency and productivity are continuously maximized while levels, temperatures, pressures, or flows float within their allowable limits. This control philosophy differs from earlier approaches - where levels and temperatures were controlled at constant values, and plant productivity was only an accidental, uncontrolled consequence of those controlled variables. With this approach, the sides of a multivariable control envelope are the various constraints while inside the envelope the process is continuously moved to maximize efficiency and productivity. Because one must understand a process before one can control it (let alone optimize it), Optimization of Industrial Unit Processes discusses the "personality" and characteristics of each process in term of its time constants, gains, and other unique features. This book provides information for engineers who design or operate industrial plants and who seek to increase the profitability of their plants. It recognizes that all industrial processes involve operations such as material transportation, heat transfer, and reactions. Therefore each plant consists of a combination of basic unit operations and can be optimized by maximizing the efficiency, and minimizing the operating cost, of the individual unit operations from which it is composed. Optimization of Industrial Unit Processes discusses real world processes - where pipes leak, sensors plug, and pumps cavitate - offering practical solutions to real problems. Each control system described in the book works, illustrating the state of the art in controlling a particular unit operation. This second edition reflects the continual improvement and evolution of control systems as well as anticipates future advances. Béla G. Lipták speaks on Post-Oil Energy Technology on the AT&T Tech Channel.

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As manufacturing processes become increasingly complex, industry must rely on advanced sensor technology and process control to improve efficiency and product quality. Processes now need a variety of on-line measurements, such as film thickness, particle size, solids concentrations, and contamination detection. Industrial Process Sensors provides a coherent review of the physical principles, design, and implementation of a wide variety of in-process sensors used to control manufacturing operations. Real data from commercial installations illustrates the operation and limitations of these devices. The book begins with a review of the basic physics of sound, light, electricity, and radiation, with a focus on their role in sensor devices. The author introduces the generic sensor model and discusses the propagation of measurement errors. He goes on to describe conventional process sensors that measure temperature, pressure, level, and flow. The second half of the book focuses on more advanced topics, such as particle size measurement in slurries and emulsions, tomography and process imaging of manufacturing operations, on-line measurement of film thickness, identification of polymer type for recycling, and characterization of reinforced polymers and composites. By exploring both theory and final implementation of sensors used to control industrial manufacturing processes, Industrial Process Sensors provides the information you need to develop solutions to a wide range of industrial measurement needs.

This comprehensive book examines the technology and practical applications of plant multivariable envelope control. Optimize plant productivity, including air handlers, boilers, chemical reactors, chillers, clean-rooms, compressors and fans, cooling towers, heat exchangers, and pumping stations. Béla G. Lipták speaks on Post-Oil Energy Technology on the AT&T Tech Channel.

By far the most commonly encountered and energy-intensive unit operation in almost all industrial sectors, industrial drying continues to attract the interest of scientists, researchers, and engineers. The Handbook of Industrial Drying, Fourth Edition not only delivers a comprehensive treatment of the current state of the art, but also serves as a consultative reference for streamlining industrial drying operations. New to the Fourth Edition: Computational fluid dynamic simulation Solar, impingement, and pulse combustion drying Drying of fruits, vegetables, sugar, biomass, and coal Physicochemical aspects of sludge drying Life-cycle assessment of drying systems Covering commonly encountered dryers as well as innovative dryers with future potential, the Handbook of Industrial Drying, Fourth Edition not only details the latest developments in the field, but also explains how improvements in dryer design and operation can increase energy efficiency and cost-effectiveness.

Unsurpassed in its coverage, usability, and authority since its first publication in 1969, the three-volume Instrument Engineers' Handbook continues to be the premier reference for instrument engineers around the world. It helps users select and implement hundreds of measurement and control instruments and analytical devices and design the most cost-effective process control systems that optimize production and maximize safety. Now entering its fourth edition, Volume 1: Process Measurement and Analysis is fully updated with increased emphasis on installation and maintenance consideration. Its coverage is now fully globalized with product descriptions from manufacturers around the world. Béla G. Lipták speaks on Post-Oil Energy Technology on the AT&T Tech Channel.

Energy Optimization in Process Systems and Fuel Cells, Second Edition covers the optimization and integration of energy systems, with a particular focus on fuel cell technology. With rising energy prices, imminent energy shortages, and increasing environmental impacts of energy production, energy optimization and systems integration is critically important. The book applies thermodynamics, kinetics and economics to study the effect of equipment size, environmental parameters, and economic factors on optimal power production and heat integration. Author Stanislaw Sieniutycz, highly recognized for his expertise and teaching, shows how costs can be substantially reduced, particularly in utilities common in the chemical industry. This second edition contains substantial revisions, with particular focus on the rapid progress in the field of fuel cells, related energy theory, and recent advances in the optimization and control of fuel cell systems. New information on fuel cell theory, combined with the theory of flow energy systems, broadens the scope and usefulness of the book Discusses engineering applications including power generation, resource upgrading, radiation conversion, and chemical transformation in static and dynamic systems Contains practical applications of optimization methods that help solve the problems of power maximization and optimal use of energy and resources in chemical, mechanical, and environmental engineering

This book is a printed edition of the Special Issue "Real-Time Optimization" that was published in Processes

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