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includes contributions from diverse areas of soft computing and computing with words such as uncertain computation decision making under imperfect information neuro fuzzy approaches deep learning natural language processing and others The topics of the papers include theory and applications of soft computing information granulation computing with words computing with perceptions image processing with soft computing probabilistic reasoning intelligent control machine learning fuzzy logic in data analytics and data mining evolutionary computing chaotic systems soft computing in business economics and finance fuzzy logic and soft computing in earth sciences fuzzy logic and soft computing in engineering fuzzy logic and soft computing in material sciences soft computing in medicine biomedical engineering and pharmaceutical sciences Showcasing new ideas in the field of theories of soft computing and computing with words and their applications in economics business industry education medicine earth sciences and other fields it promotes the development and implementation of these paradigms in various real world contexts This book is a useful guide for academics practitioners and graduates

Profit Maximization Techniques for Operating Chemical Plants Sandip K. Lahiri, 2020-05-01 A systematic approach to profit optimization utilizing strategic solutions and methodologies for the chemical process industry In the ongoing battle to reduce the cost of production and increase profit margin within the chemical process industry leaders are searching for new ways to deploy profit optimization strategies Profit Maximization Techniques For Operating Chemical Plants defines strategic planning and implementation techniques for managers senior executives and technical service consultants to help increase profit margins The book provides in depth insight and practical tools to help readers find new and unique opportunities to implement profit optimization strategies From identifying where the large profit improvement projects are to increasing plant capacity and pushing plant operations towards multiple constraints while maintaining continuous improvements there is a plethora of information to help keep plant operations on budget The book also includes information on Take away methods and techniques for identifying and exploiting potential areas to improve profit within the plant Focus on latest Artificial Intelligence based modeling knowledge discovery and optimization strategies to maximize profit in running plant Describes procedure to develop advance process monitoring and fault diagnosis in running plant Thoughts on engineering design best practices and monitoring to sustain profit improvements Step by step guides to identifying building and deploying improvement applications For leaders and technologists in the industry who want to maximize profit margins this text provides basic concepts guidelines and step by step guides specifically for the chemical plant sector

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Microprocessor Applications for Productivity Improvement ,1988 **A Practical Guide to Process Controls in the Minerals Industry** ,1992

Advanced Process Control Cecil L. Smith,2011-02-25 This book fills the gap between basic control configurations Practical Process Control and model predictive control MPC For those loops whose performance has a direct impact on plant economics or product quality going beyond simple feedback or cascade can improve control performance or specifically reduce the variance about the target However the effort required to implement such control technology must be offset by increased economic returns from production operations The economic aspects of the application of the various advanced control technologies are stressed throughout the book *The Chemical Engineer* ,2007 Chemical Engineering ,2005

Hydrocarbon Processing ,1987 September 1 2021 Since 1922 management and technical professionals from petroleum refining gas processing petrochemical chemical and engineer constructor companies throughout the world have turned to Hydrocarbon Processing for high quality technical and operating information Through its monthly magazine website and e newsletters Hydrocarbon Processing covers technological advances processes and optimization developments from throughout the global Hydrocarbon Processing Industry HPI Hydrocarbon Processing editors and writers provide real world case studies and practical information that readers can use to improve their companies operations and their own professional job skills taken from publisher web site *Proceedings of the IEEE Workshop on Real-Time Applications* ,1993

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