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Bela G. Liptak, Halit Eren



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plants this book details the wired wireless communications and software used This includes the ever increasing number of applications for intelligent instruments enhanced networks Internet use virtual private networks and integration of control systems with the main networks used by management all of which operate in a linked global environment Topics covered include Advances in new displays which help operators to more quickly assess and respond to plant conditions Software and networks that help monitor control and optimize industrial processes to determine the efficiency energy consumption and profitability of operations Strategies to counteract changes in market conditions and energy and raw material costs Techniques to fortify the safety of plant operations and the security of digital communications systems This volume explores why the holistic approach to integrating process and enterprise networks is convenient and efficient despite associated problems involving cyber and local network security energy conservation and other issues It shows how firewalls must separate the business IT and the operation automation technology or AT domains to guarantee the safe function of all industrial plants This book illustrates how these concerns must be addressed using effective technical solutions and proper management policies and practices Reinforcing the fact that all industrial control systems are in general critically interdependent this handbook provides a wide range of software application examples from industries including automotive mining renewable energy steel dairy pharmaceutical mineral processing oil gas electric power utility and nuclear power

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regression objectives design experiments to obtain data capturing critical system behaviors fit the model parameters based on that data and statistically characterize the resulting model The author has used the material in the undergraduate unit operations lab course and in advanced control applications

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Design of Simple and Robust Process Plants J. L. A. Koolen, 2001-10-15 The approaches to design process plants described in this book lead to process designs which require 30 40% less capital than usual The book is unique since it is the first comprehensive work addressing both the total process design and operational approach

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