

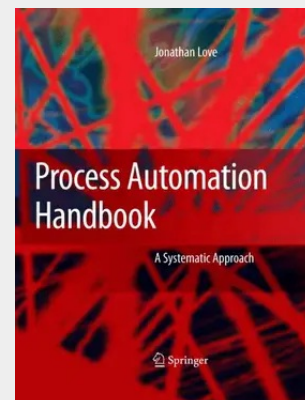
Process Automation Handbook

A Guide to Theory and Practice

The objective of this book is to distil into a single coherent handbook all the essentials of process automation at a depth sufficient for most practical purposes. Previously published books exist in these areas but most are generic and, of those that are applied in nature, few are oriented towards the actual needs of the chemical and process industry. No other book covers the gap between the theory and practice of control systems so comprehensively and at a level suitable for practicing engineers. The handbook focuses on the knowledge needed to cope with the vast majority of process control and automation situations. In doing so, a number of sensible balances have been carefully struck. A thorough grounding is provided for every topic. If more detailed information is required, the reader is referred to more specialised texts in the knowledge that he or she has been provided with a sound platform to ask the right questions and understand the answers.

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process industries are subject to increasing changes. These include globali- tion, increased earning per share expectation, increasing safety and environmental legislation, staff retirement, shortage of engineers and increasingly rapid evolution of technology. To be successful, process manufacturing companies must respond by: Consistently improving safety and environmental performance Becoming more responsive to customers Reducing manufacturing costs Reducing working capital Improving equipment life There are many approaches to achieving these improvements such as improvement of process equipment and ?owsheets, staff training, work process improvement, organizational restructuring and, in particular, process automation.



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