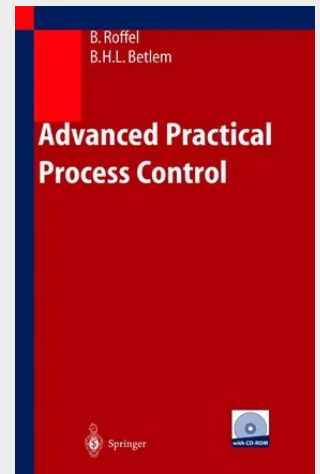


Advanced Practical Process Control

In the process industries there is an ongoing need for improvement of the operation of the process. One of the disciplines that will help the process engineer to achieve this is process control. There are many industrial automation systems to day that will offer powerful tools to meet the process control needs of industries with continuous, batch and discrete operations. Advanced control solutions sustain and improve the plant's competitiveness by ensuring: - safe operations - compliance with environmental regulations - effective use of raw materials and energy - efficient production - manufacturing of high quality products - flexible accommodation of changing process requirements. This book was written from the perspective of introducing advanced control concepts, which can help the engineer to reach the aforementioned goals. Many advanced control techniques have been implemented in industry in recent years, since hardware and software platforms are becoming increasingly powerful. Manufacturers of process control equipment call this hardware and software environment generally 'distributed control system'. The distributed control system equipment offers the engineer an excellent platform for writing and implementing advanced control solutions. However, most large chemical and petrochemical manufacturers hire control specialists to implement these control solutions, while small manufacturers often lack the funds to hire these professionals. Therefore it is our experience that in the latter case, process engineers often write the control programs required to improve process operation.

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