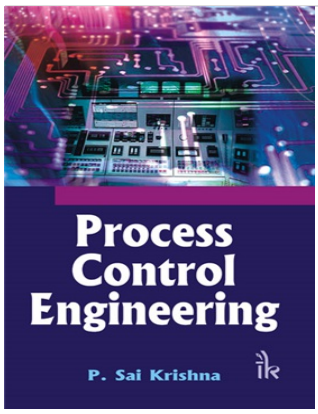
Book Information Sheet



Process Control Engineering, 1/e

P. Sai Krishna

2009 | 264 pp | Paperback | ISBN: 9789380026398 | Price: 355.00

About the Book

This book has been prepared keeping in view the abstractness of this science "Process control" and for better understanding of this subject for practising engineers, teachers and students of Instrumentation, Electrical and Electronics disciplines.

The major topics of process control have been explained with greater lucidity by taking appropriate illustrative examples and more number of solved problems wherever required, for easier comprehension and quick assimilation of the subject.

Also the subject matter has been carefully prepared to cater to the needs of multi-disciplined engineering students where process control systems, are an integral part of their curriculum.

It explains the concepts of process control instrumentation with a touch of practicality supported by related mathematical background to make the reading journey interestingly instructive.

Salient Features

Salient Features:

- Spread in seven chapters, it deals with modes of controller operation, effect of control actions on processes, tuning of controllers, and implementation of control actions, final control elements, and process control system configurations.
- Mathematical rigor is kept to an optimum level for a better understanding.
- ISA standards have been kept in mind while discussing tuning and drawing instrumentation/piping diagrams.
- Each chapter includes graded problems with solutions and question sets for practice.

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- Introduction
- Modes of Controller Operation
- Effects of Control Actions on Processes
- Tuning of Controllers
- Implementation of Control Actions
- Final Control Elements
- Process Control System Configurations
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About the Author

P. Sai Krishna :-

P. Sai Krishna is a senior faculty in the department of Instrumentation Engineering, M.J. College of Engineering and Technology, Hyderabad, A.P. He has a rich experience of 15 years in teaching field, in the areas of control systems and process control. He has to his credit, setting up of process control laboratories in different colleges in Mumbai and Hyderabad. He is also a visiting expert faculty all over Andhra Pradesh and India in the subject areas of Control Systems, Process Control and Instrumentation for competitive examinations like GATE and IES in particular, and is a very popular teacher known for his special techniques and teaching methodologies in the field of competitive examinations.