

FUNDAMENTALS OF PROCESS CONTROL THEORY (3RD EDITION) BY PAUL W. MURRILL



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THIRD EDITION

by Paul W. Murrill

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PREFACE TO THE THIRD EDITION

Fundamentals of Process Control Theory was written in 1981 as a prototype for ISA's Independent Learning Module publication series, and it rapidly became the best-selling book ever published by ISA. With the publication of the second edition in 1991, the strong popular acceptance continued and the book has approached "classic" status. This is especially satisfying for an author.

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This book is intended to be both theoretical and practical--that is, to show the basic concepts of process control theory and how these concepts are used in daily practice. This is a book about fundamentals, concepts, ideas, principles, theory, and behavior. It is not about hardware and software. To some extent, however, we all know that hardware and software will dictate what "theory" can be used and useful. Thus, the actual implementation of process control theory changes as hardware and software change, and this march of progress has made a third edition necessary. I hope this new edition proves useful to you, the student.

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Paul W. Murrill, July 1999

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Long praised for its clear, stylish presentation of the basic principles of process automation, the third edition of Dr. Paul Murrill's classic textbook is now revised and updated for the digital age.

Step by step, with 16 carefully designed self-study units, Murrill walks you through process control theory from basic concepts to advanced control techniques. Now, not only does it reflect the most recent changes in technology, but it also incorporates material from Application Concepts of Process Control, Murrill's much-praised book on putting theory into practice.

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Paul W. Murrill, July 1999

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A true road map to the world of process control. The book contains 17 step-by-step self study units. It also comes with a CD that includes a digital version of the full textbook.

I am an Industrial Practitioner of Process Control. I have been working for more than 16 years as an Instrumentation, Automation, and Process Safety and Control Engineer for the Oil & Gas Industry. I have made extensive use of this book to prepare tutorial and training material for technician and operators.

If you are looking for a more in-depth treatment of process control topics, but still oriented towards practical industrial applications, you might want to consider Bela Liptak's Instruments Engineer's Handbook Volume 2 - Process Control and Optimization. I own both books and they have proven to be a very effective combination to solve day to day problems in my job.

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The instrument shop where I work selected this book for apprentice instrument techs. It is a disaster! None of the techs understand calculus or differential equations. Most of the theory and terminology are way over their heads. The book is long on verbage but short on real meat for the beginners. Quite honestly, I don't see any use in having this book on my shelf. I recommend the 4th edition of the Instrumentation book by Franklyn Kirk. It also comes with a very good workbook for a few bucks extra.

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