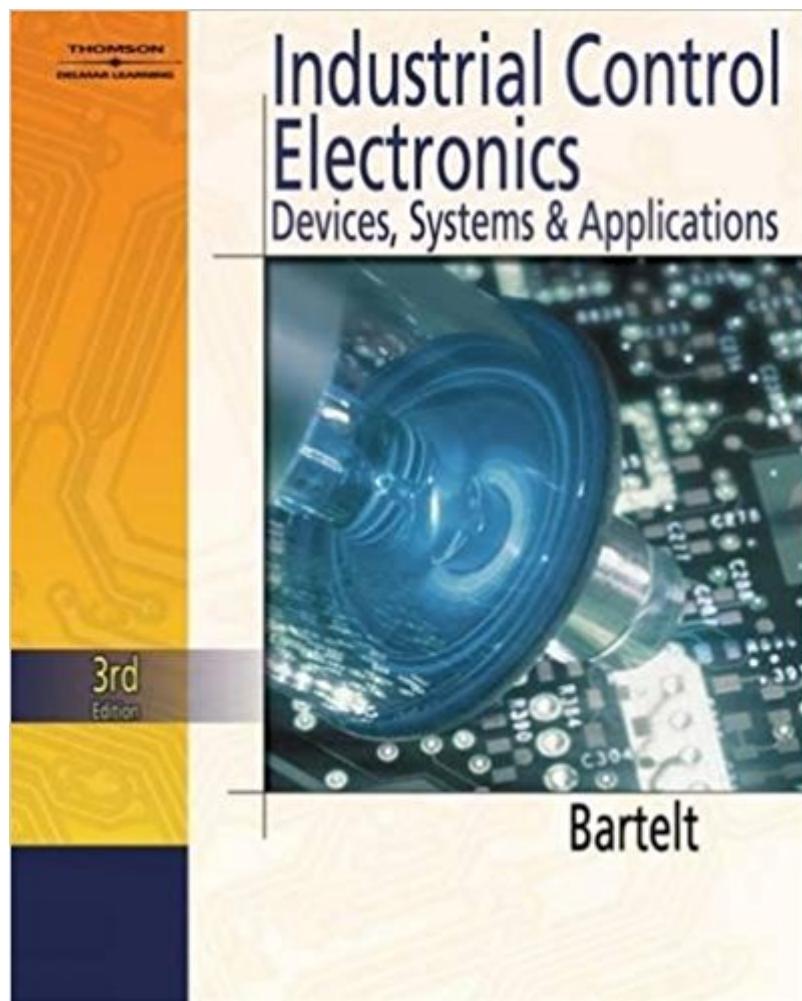


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# Industrial Control Electronics



## Synopsis

This new edition continues to provide state-of-the-art coverage of the entire spectrum of industrial control, from servomechanisms to instrumentation. Material on the components, circuits, instruments, and control techniques used in today's industrial automated systems has been fully updated to include new information on thyristors and sensor interfacing and updated information on AC variable speed drives. Following an overview of an industrial control loop, readers may delve into individual sections that explore each element of the loop in detail. This logical format offers the flexibility needed to use the book effectively in a variety of courses, from electric motors to servomechanisms, programmable controllers, and more!

## Book Information

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SECTION 1 INDUSTRIAL CONTROL OVERVIEW Chapter 1 Introduction to Industrial Control Systems Chapter 2 Interface Devices Chapter 3 Thyristors SECTION 2 THE CONTROLLER Chapter 4 The controller Operation SECTION 3 Electric Motors Chapter 5 DC Motors Chapter 6 AC Motors Chapter 7 Servo Motors SECTION 4 VARIABLE SPEED DRIVES Chapter 8 DC Drives Chapter 9 AC Drives SECTION 5 PROCESS CONTROL AND INSTRUMENTATION Chapter 10 Pressure Systems Chapter 11 Temperature Control Chapter 12 Flow Control Chapter 13 Level Control Systems Chapter 14 Analytical Instrumentation Chapter 15 Industrial Process Techniques and Instrumentation Chapter 16 Process Control Methods SECTION 6 DETECTION SENSORS Chapter

17 Industrial Detection Sensors and Interfacing SECTION 8 PROGRAMMABLE CONTROLLERS  
Chapter 18 Introduction to Programmable Controllers Chapter 19 Fundamental PLC Programming  
Chapter 20 Advanced Programming, PLC Interfacing, and Troubleshooting SECTION 9 MOTION  
CONTROL Chapter 21 Motion Control Feedback Devices Chapter 22 Elements of Motion Control  
Chapter 23 Fundamentals of Servomechanisms Chapter 24 Functional Industrial Systems

Terry Bartelt is currently an Electromechanical Instructor at Fox Valley Technical College, with more than twenty five years teaching experience in the field. He was a National Science Foundation (NSF) Recipient for Process Control in 1997 and received another NSF grant in 2005 to develop multimedia materials covering industrial automation related topics. In addition, Mr. Bartelt's Electromechanical Technology Program was presented the Secretary of Education Award as one of the top ten community college programs in the country.

I can see where this text can be confusing to those with little or no electrical background. If this is you, you need some background theory before biting off more than you can chew. This text is well designed and explanation is more than necessary (a definite positive). Although this has nothing to do with the text itself, the printer could have used a better quality paper...highlighting areas or lines creates wet areas that bleed through to the other page. Especially colors other than yellow. Either way, it will be in my professional library.

I purchased this book as a refresher for a new job with a major aircraft manufacturer. I was very pleased with the content and the book's general condition (used). The book was supposed to contain a CD with a final chapter. I was disappointed that it was missing, but that's the risk you take when you buy used products. It wasn't a show-stopper and I am still satisfied with the value!

Described and delivered as expected

Good thanks

great

meh, it's a textbook...

Very satisfied

If you're like me a college student. You would know that paying for classes THEN on top of that ordering books is a money grubbing task. The problem isn't really the class cost but the books that come with them. At the school that I go to this book would have cost me about a \$100 more! So knowing me (Cheap), I searched online until I came across and Textbook Rush. I felt like I hit the jackpot and a victory to all the students out there that THINK they have no choice but to pay the School's bookstore price.

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