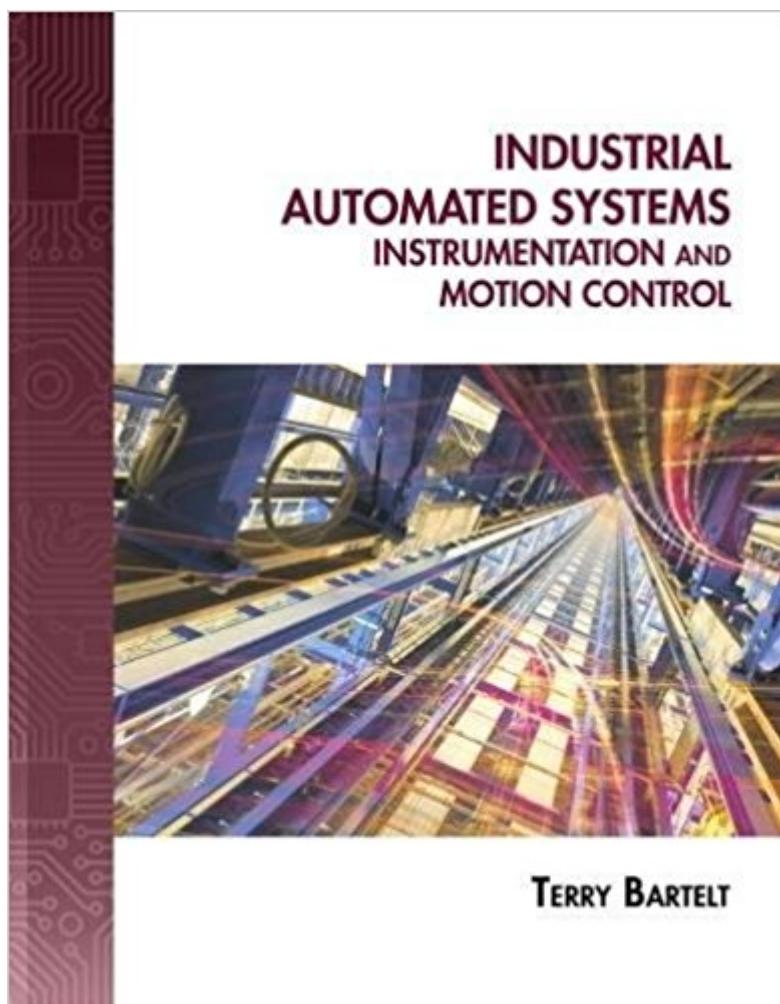


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# Industrial Automated Systems: Instrumentation And Motion Control



## **Synopsis**

INDUSTRIAL AUTOMATED SYSTEMS: INSTRUMENTATION AND MOTION CONTROL, is the ideal book to provide readers with state-of-the art coverage of the full spectrum of industrial maintenance and control, from servomechanisms to instrumentation. Readers will learn about components, circuits, instruments, control techniques, calibration, tuning and programming associated with industrial automated systems. INDUSTRIAL AUTOMATED SYSTEMS: INSTRUMENTATION AND MOTION CONTROL, focuses on operation, rather than mathematical design concepts. It is formatted into sections so that it can be used for a variety of courses, such as electrical motors, sensors, variable speed drives, programmable logic controllers, servomechanisms, and various instrumentation and process classes. This book also offers readers a broader coverage of industrial maintenance and automation information than other books and provides them with a more extensive collection of supplements, including a lab manual and two hundred animated multimedia lessons on a CD.

## **Book Information**

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SECTION I: INDUSTRIAL CONTROL OVERVIEW. 1. Introduction to Industrial Control Systems Introduction. SECTION II: INTERFACING DEVICES. 2. Interface Devices Introduction. 3. Thyristors Introduction. SECTION III: THE CONTROLLER. 4. Introduction. Control Modes. On-Off Control. Proportional Control. Proportional- SECTION IV: ELECTRIC MOTORS. 5. DC Motors. 6. AC Motors. 7. Servo Motors. SECTION V: VARIABLE SPEED DRIVES. 8. DC Drives. 9. AC Variable

Speed Drive. SECTION VI: PROCESS ONCTROL AND INSTRUMENTATION. 10. Pressure Systems. 11. Temperature Control. 12. Flow Control. 13. Level Control Systems. 14. Analytical Instrumentation. 15. Industrial Process Techniques and Instrumentation. 16. Instrumentation Symbology. 17. Process Control Methods. 18. Instrument Calibration and Controller Tuning. SECTION VII: DETECTION SENSORS. 19. Industrial Detection Sensors and Interfacing Introduction. 20. Industrial Wireless Technologies. SECTION VIII: PROGRAMMABLE CONTROLLERS. 21. Introduction to Programmable Controllers. 22. Fundamental PLC Programming. 23. Advanced Programming, PLC Interfacing, and Troubleshooting. SECTION IX: MOTION CONTROL. 24. Elements of Motion Control. 25. Motion Control Feedback Devices. 26. Fundamentals of Servomechanisms. SECTION X: INDUSTRIAL NETWORKS. 27. Industrial Networking. 28. (On book CD) Industrial Applications.

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.

This is a very well written book and it covers the topics in a way that makes it easy to understand, with plenty of illustrations as well. Illustrations are very helpful, especially if they are animated, so I loved the idea that a CD of videos was included. One note I would like to provide is that the included CD only contains a small fraction of the videos referenced throughout the book. I think a teachers version of the book might come with all the videos. But the good news is that I found all the referenced videos are available online for free at [www.wisc-online.com](http://www.wisc-online.com) . As an FYI to the publisher, future versions should include all referenced videos on the CD, or don't reference the video.

2011C edition, Terry Bartelt, Industrial Automated Systems: Instrumentation and Motion ControlSo far I recommend it, I'm an electrical design engineer on the accelerated learning path and find it useful.what it is: a book that covers a lot, the style is worded descriptions, pictures and diagrams... minimal mathematicsworded descriptions are pretty good.mathematical detail is minimal/non-existent, however I feel the intuitive can find this information out elsewhere, ex) via internet search library, other books.In my opinion the book is worth it and contains good technical

descriptions, however without mathematical explanation. Thus far I have not had the time to explore the CD Good luck

its quite a good book for beginners. it has math equation, but not overwhelming. I has a lot of categories that I'm learning in school. I think if your just beginning to start your career as a Mechatronics/robotics/Automation Technician like myself then this is a pretty handy book

I'm a Control Systems Engineer and have found this book useful. I'd definitely recommend this book.

My son is using this book for his class. Thank you.

This book is very thorough and detailed. It is definitely not for beginners. Love it!!

Pretty much as described. Condition is a little bit less than described, but OK. Price was good and it shipped out and arrived quick.

Excellent

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