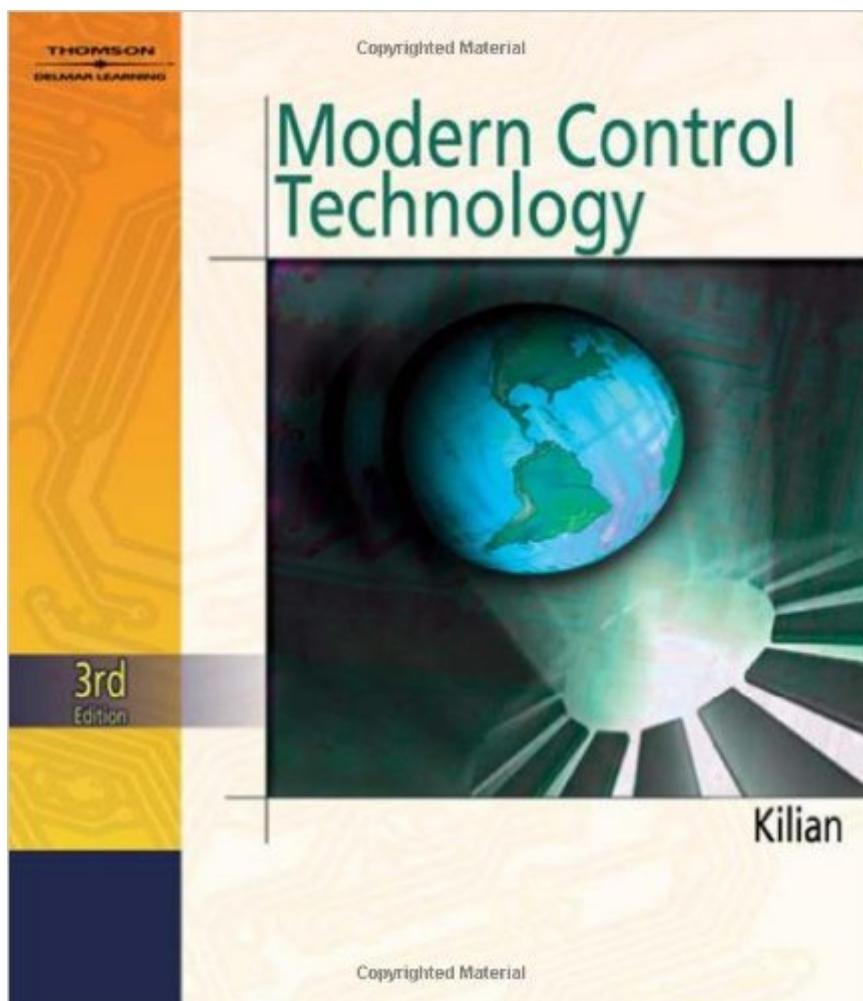


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# Modern Control Technology



## Synopsis

This book makes use of ample illustrations and clear, no-nonsense explanations to provide a fundamental understanding of modern automatic control systems and industrial electronics. It is logically organized, taking readers on a "virtual journey" through a typical control system, starting with an introduction, then moving on to discuss basic components, sensors, wiring, motors, motor control circuits, and mechanical parts. At the conclusion, these functional parts are "put together" by discussing control strategies and controller types, including Programmable Logic Controllers. The text is both contemporary and comprehensive in scope, with supplemental information on various basic applied physics and mechanical concepts, such as linear and rotational motion, springs, friction, gears, levers, heat transfer, and energy transfer not found in other books in its class. Digital controllers and concepts are introduced early and referenced throughout the book. Analog concepts are also included. This edition features new material on digital "panel mount" controllers, differential gears, the Insulated Gate Bipolar Transistor (IGBT), ultrasonic proximity sensors, inductive proximity sensors, ultrasonic flow sensors, and cascade control. Information has also been added to better address such topics as AC variable frequency motor drives, PID control, and the AS-I sensor factory network.

## Book Information

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## Customer Reviews

Modern Control Technology provides an excellent information foundation to grow on for electro mechanical and control systems. This book is written in a concise "How Things Work" style that is

easy to understand in a way that makes it extremely valuable to those who are starting a career in electronics and engineering technologies. "Modern Control Technology" is an excellent reference for engineering fundamentals needed to design and build motion control systems. Fundamentals of mechanical components, electrical and electronic components, physics of energy and motion, sensors, control methods including PID, and much more. This is the best book to have at your workbench when you need to review how things work ... and when you need to explain how things work to your co-workers or boss! I keep this book next to my Machinery's Handbook Machinery's Handbook, 27th Edition (Machinery's Handbook) As a good foundation, Modern Control Technology by Prof [...] Kilian is a great book when you want to understand how an electro mechanical device or system works. The book has adequate and well illustrated examples. After reading this book, you will feel you are ready to start designing and building your own devices and systems with confidence!

The book is well organized, and the author doesn't waste words. I'm using it for a first controls class at the college level. It has just enough math to make it useful, but not enough to scare the students away, I definitely recommend this book for anyone who needs to learn about control systems but doesn't want the typical college level course full of math and nothing practical. It does contain some of the classic controls material near the end, but it's mostly concerned with mechanical devices and systems and how to control them. Most college books are all theory and math and result in nothing actually useful or practical. I'd say this book would be suited for a technical program rather than an engineering degree program.

This book, while being way too expensive, is a great survey of electronic controls. The text is easy to read and is backed up with tons of pictures/diagrams. The problem sets fairly represent the material given, and answers to the odd problems are provided, something that is always appreciated.

This book is very exciting and interesting to read. It is clearly a technology book, not targeted for Electrical Engineering course. This book does not have the deep mathematical analysis that is required for Electrical Engineering. Rather it gives you enough high level math explanation which is really helpful for practical purpose. If you are taking a course on Control Systems in Electrical Engineering, you may find it beneficial to read this book first; in order to get a very practical intuition.

Warning: I am biased toward this book. I am an electrical engineering student and have never taken an electromechanical class until now. I love this book. I'm already thinking about the automation I could build using this book as a reference. I have not gone through the entire book so I cannot judge the content that I have not read. But I love it.

A very practical, no-nonsense book with easy to understand concepts and principles. It includes the physics and the math where appropriate and has realistic exercise problems.

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