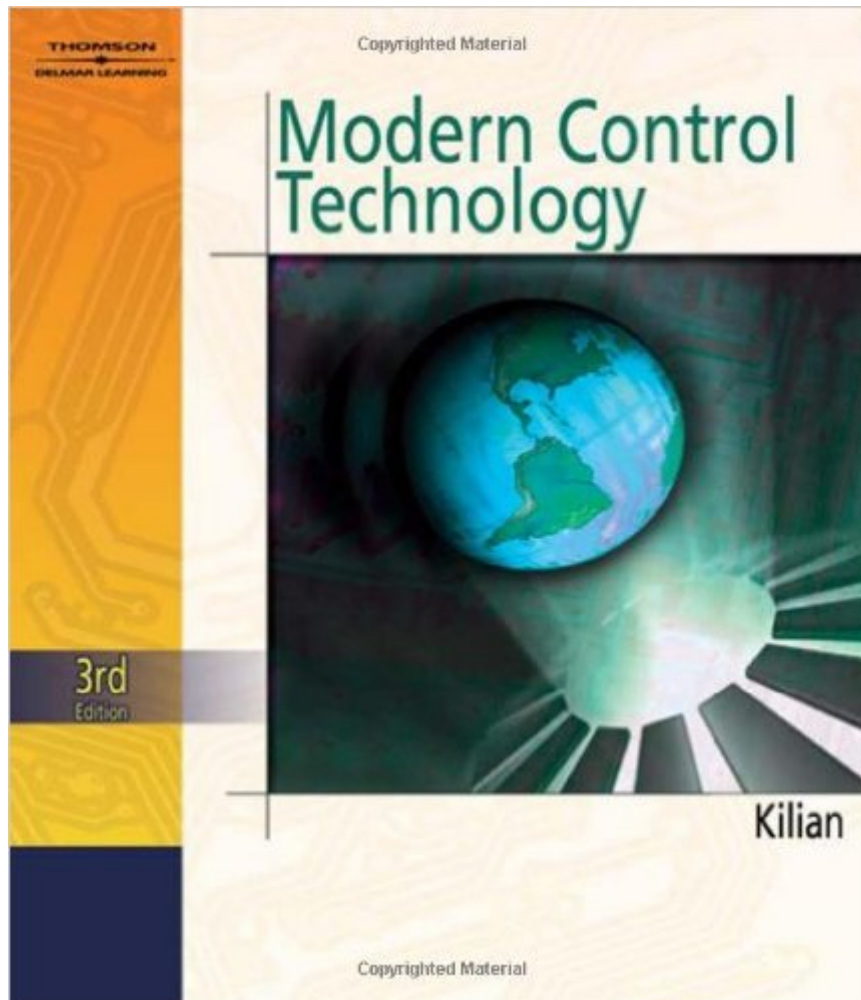


The book was found

# 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

Hardcover: 648 pages

Publisher: Cengage Learning; 3 edition (March 30, 2005)

Language: English

ISBN-10: 1401858066

ISBN-13: 978-1401858063

Product Dimensions: 8 x 1.2 x 9.4 inches

Shipping Weight: 2.6 pounds (View shipping rates and policies)

Average Customer Review: 4.9 out of 5 stars [See all reviews](#) (11 customer reviews)

Best Sellers Rank: #343,317 in Books (See Top 100 in Books) #280 in [Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Robotics & Automation](#) #482 in [Books > Textbooks > Engineering > Mechanical Engineering](#) #1244 in [Books > Engineering & Transportation > Engineering > Mechanical](#)

## 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.

[Download to continue reading...](#)

NLP: Neuro Linguistic Programming: Re-program your control over emotions and behavior, Mind Control - 3rd Edition (Hypnosis, Meditation, Zen, Self-Hypnosis, Mind Control, CBT) Modern Control Technology: Components and Systems Modern Control Technology Modern Essentials Bundle - Modern Essentials \*7th Edition\* a Contemporary Guide to the Therapeutic Use of Essential Oils, an Intro to Modern Essentials, Reference Card, and Aroma Designs Bookmark Next Generation SOA: A Concise Introduction to Service Technology & Service-Oriented Architecture (The Prentice Hall Service Technology Series from Thomas Erl) Technology In Action Complete (13th Edition) (Evans, Martin & Poatsy, Technology in Action Series) Visualizing Technology Complete (5th Edition) (Geoghan Visualizing Technology Series) Robotics: The Beginner's Guide to Robotic Building, Technology, Mechanics, and Processes (Robotics, Mechanics, Technology, Robotic Building, Science) ECHO USER GUIDE: The Official User Guide For Using Your Echo (technology mobile communication kindle alexa computer hardware) (Echo ... & Technology Ebooks Hardware & DIY) Cloud Computing: Concepts, Technology & Architecture (The Prentice Hall Service Technology Series from Thomas Erl) Fashionable Technology: The Intersection of Design, Fashion, Science, and Technology Framing Production: Technology, Culture, and Change in the British Bicycle Industry (Inside Technology) Concrete Technology (Trade, Technology & Industry) Autonomous Vehicle Technology: A Guide for Policymakers (Transportation, Space, and Technology Program) Food Packaging Science and Technology (Packaging and Converting Technology) Foundations of Educational Technology: Integrative Approaches and Interdisciplinary Perspectives (Interdisciplinary Approaches to Educational Technology) Reeds Vol 14: Stealth Warship Technology (Reeds Marine Engineering and Technology Series) Science and Technology in the Global Cold War (Transformations: Studies in the History of Science and Technology) Technology in the Law Office, Second Edition (Technology in the Law Office, Second Edition) Vascular Technology Review: A Q&A Review for the ARDMS Vascular Technology Exam

[Dmca](#)