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MOTOR MICROCONTROLLER CONTROL (2ND EDITION)



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paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Publisher: Beijing University of Aeronautics Published Pub. Date :2010-09-03. motor digital control is the development trend of motor control with single-chip motor control is the most commonly used to achieve digital control of motor means. This book detailed. systematic introduction to the common DC motors. AC motors. stepper motors. brushless DC motors. permanent magnet AC synchronous servo motor control principles and methods used to control the microcontroller. and gives the MCU control circuit and software. Also introduced the power for the motor-driven components of the common characteristics and driving circuit for motor closed-loop control of the common principles as well as single-chip sensor interface circuit for the motor to optimize the digital PID control algorithms and digital filtering and programming. This book is suitable for motor control microcontroller interested beginners. as institutions of higher learning mechanical and electrical engineering. electrical automation and electrical engineering textbooks. but also as related to professional engineering and technical personnel. self-learning books. Contents: Introduction Chapter 1 mechanical and electrical drive system dynamics based mechanical and electrical drive system of the equations of motion 1.1 1.2 torque and moment of inertia of the load machine translation of 1.3 and 1.4 Electrical and mechanical characteristics of the motor drive conditions for stable operation of the first two exercises and reflection questions Chapter 2.1 Common power electronic devices turn-off thyristor characteristics and parameters of 2.1.1 GTO principles and performance 2.1.2-off thyristor gate drive circuit performance and power transistors 2.2 2.2.1 Application characteristics and parameters of the power transistor driver 2.3 2.2.2 power transistor performance and power FET power FET 2.3.1 Application characteristics and parameters of 2.3.2 of the power FET gate drive double-insulated 2.4 transistor performance...



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