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| Nota di contenuto       | Intro -- Title Page -- Copyright -- Table of Contents -- Preface -- Chapter 1: Introduction -- 1.1 Components of a Motion Control System -- References -- Chapter 2: Motion Profile -- 2.1 Kinematics: Basic Concepts -- 2.2 Common Motion Profiles -- 2.3 Multiaxis Motion -- Problems -- References -- Chapter 3: Drive-Train Design -- 3.1 Inertia and Torque Reflection -- 3.2 Inertia Ratio -- 3.3 Transmission Mechanisms -- 3.4 Torque Required for the Motion -- 3.5 Motor Torque-Speed Curves -- 3.6 Motor Sizing Process -- 3.7 Motor Selection for Direct Drive -- 3.8 Motor and Transmission Selection -- 3.9 Gearboxes -- 3.10 Servo Motor and Gearhead Selection -- 3.11 AC Induction Motor and Gearbox Selection -- 3.12 Motor, Gearbox, and Transmission Mechanism Selection -- Problems -- References -- Chapter 4: Electric Motors -- 4.1 Underlying Concepts -- 4.2 Rotating Magnetic Field -- 4.3 AC Servo Motors -- 4.4 AC Induction Motors -- 4.5 Mathematical Models -- Problems -- References -- Chapter 5: Sensors and Control Devices -- 5.1 Optical Encoders -- 5.2 Detection Sensors -- 5.3 Pilot Control Devices -- 5.4 Control Devices for AC Induction Motors -- Problems -- References -- Chapter 6: AC Drives |

-- 6.1 Drive Electronics -- 6.2 Basic Control Structures -- 6.3 Inner Loop -- 6.4 Simulation Models of Controllers -- 6.5 Tuning -- Problems -- References -- Chapter 7: Motion Controller Programming and Applications -- 7.1 Move Modes -- 7.2 Programming -- 7.3 Single-Axis Motion -- 7.4 Multiaxis Motion -- Problems -- References -- Appendix A: Overview of Control Theory -- A.1 System Configurations -- A.2 Analysis Tools -- A.3 Transient Response -- A.4 Steady-State Errors -- References -- Index -- End User License Agreement.

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