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Nota di contenuto	Title Page ; Copyright; Contents; List of contributors; Preface; Chapter 1 Introduction; 1.1 Introduction to the book; 1.2 Traction applications; 1.3 Electric drives for traction applications; 1.3.1 General description; 1.3.2 Different electric drive configurations; 1.4 Classification of different parts of electric drives: converter, machines, control strategies, and energy sources; 1.4.1 Converters; 1.4.2 Machines; 1.4.3 Control strategies; 1.4.4 AC and DC voltage sources; 1.5 Future challenges for electric drives; 1.6 Historical evolution; References; Chapter 2 Control of induction machines 2.1 Introduction2.2 Modeling of induction motors; 2.2.1 Dynamic model of the induction motor using three-phase variables; 2.2.2 Basics of space vector theory; 2.2.3 Dynamic model of the induction machine using complex space vectors; 2.2.4 Dynamic model in the stationary reference frame; 2.2.5 Dynamic models in a synchronous reference frame; 2.2.6 Torque and power equations; 2.3 Rotor flux oriented vector control; 2.3.1 Fundamentals of rotor flux oriented control; 2.3.2 The stator voltage equation; 2.3.3 Synchronous current regulators; 2.3.4 Rotor flux estimation 2.4 Torque capability of the induction machine2.4.1 Constant torque region; 2.4.2 Flux-weakening region I (constant power region); 2.4.3

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