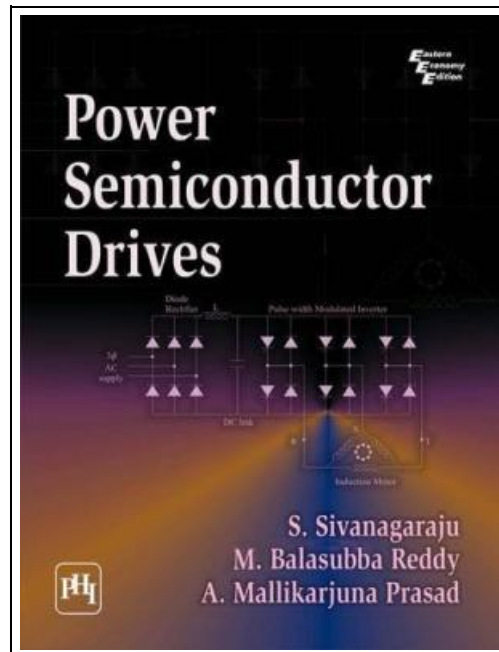


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PHI Learning, 2009. Softcover. Condition: New. First edition. This textbook introduces students to the underlying principles of operation of power semiconductor drives. It explains every facet of application of power electronics to the control of electric motors in industrial drives. The book is primarily intended for B.E./B.Tech. students of Electrical Engineering/Electrical and Electronics Engineering having courses in Electric Drives/Power Semiconductor Drives. It will also be highly useful for M.E./M.Tech. students of these disciplines specializing in Power Electronics/Industrial Drives/Electric Drives. The text is divided into eight chapters. The first two chapters cover the control of dc motors by using various kinds of converters. The third chapter focuses on dual converters and various braking techniques. Chopper control fed dc motors are discussed in the fourth chapter. The next three chapters are devoted to control methods for induction motors. The eighth chapter deals with the control of synchronous motor drives fed from VSI converters and cycloconverters. Key Features : Extensive comparative analysis of various power semiconductor drives Detailed analysis of continuous and discontinuous current conduction modes of operation for semi- and fully-controlled rectifiers Comprehensive derivations of various relevant equations Extensively illustrated, the book contains numerous solved examples throughout the text as well as a variety of chapter-end questions to help in comprehending as well as in strengthening the grasp of the underlying concepts and principles. Contents Preface Acknowledgements 1. Control of DC Motors by Single-phase Converters 2. Control of DC Motors by Three-phase Converters 3. Four Quadrant Operation of DC Drives 4. Chopper Controlled DC Drives 5. Stator Voltage Control of Induction Motor Drives 6. Control of Induction Motor Drives through Stator Frequency 7. Control of Induction Motor Drives from Rotor Side 8. Control of Synchronous Motor Drives Index Printed Pages: 392.



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