



Electric Drives with Power Electronics

By Fathe Allythi

LAP Lambert Academic Publishing Mai 2015, 2015. Taschenbuch. Book Condition: Neu. 220x150x14 mm. This item is printed on demand - Print on Demand Neuware - Modern electric drives are used extensively in industrial applications to perform a mechanical maneuver for a given load. In addition, they have other widespread applications, ranging from robots to automobiles to aircraft. This book 'Electric Drives with Power Electronics' is designed to be used as a teaching textbook for two-semester courses on electric drives and variable speed drives. The material of this book divides itself into seven Chapters. The first covers the structure of an electric drive system and its features. The second covers the mechanical system analysis. The third Chapter covers the mechanical transients analysis. The fourth covers the temperature rise, modes of operation of electric motors and the methods used for selecting suitable motor to perform a certain industrial application or a domestic service satisfactorily and on economic basis. The fifth covers the dc drives principles. The sixth one covers solid-state control of dc motors. Finally, the seventh Chapter covers the ac drives principles. 234 pp. Englisch.



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