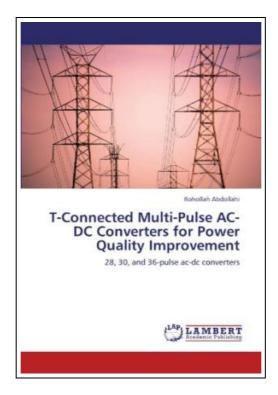
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T-CONNECTED MULTI-PULSE AC-DC CONVERTERS FOR POWER QUALITY IMPROVEMENT



Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | 28, 30, and 36-pulse ac-dc converters | This book presents the design and analysis of T-Connected autotransformer based multipulse ac-dc converters which supplies a direct torque controlled motor drive in order to improve power quality conditions at the point of common coupling. A T-connected autotransformer is designed to supply the rectifiers. This autotransformer makes use of only two single-phase transformers, resulting in reduced volume, weight, and the cost of the drive as compared with polygon structure. The design procedure of magnetics is in a way such that makes it suitable for retrofit applications where a six-pulse diode bridge rectifier is being utilized. The aforementioned structure improves power quality criteria at ac mains and makes them consistent with the IEEE-519 standard requirements for varying loads. Furthermore, near unity power factor is obtained for a wide range of DTCIMD load operation. A comparison is made between 6-pulse, 28-pulse, 30-pulse, and 36-pulse converters from view point of power quality indices. Results show that the THD of input current is less than 5% for the 28-pulse topology and less than 3% for the 30-pulse topology and less than 4% for the 36-pulse topology at variable loads. | Format: Paperback | Language/Sprache: english | 64 pp.



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