

Power Electronics And Motor Drives Advances And Trends

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power electronics and motor drives advances and trends second edition is the perfect resource to keep the electrical engineer up to speed on the latest advancements in technologies equipment and applications carefully structured to include both traditional topics for entry level and more advanced applications for the experienced engineer this reference sheds light on the rapidly growing field of power electronic operations new content covers converters machine models and new control methods such as fuzzy logic and neural network control this reference will help engineers further understand recent technologies and gain practical understanding with its inclusion of many industrial applications further supported by a glossary per chapter this book gives engineers and researchers a critical reference to learn from real world examples and make future decisions on power electronic technology and applications provides many practical examples of industrial applications updates on the newest electronic topics with content added on fuzzy logic and neural networks presents information from an expert with decades of research and industrial experience

power electronics is an area of extremely important and rapidly changing technology technological advancements in the area contribute to performance improvement and cost reduction with applications proliferating in industrial commercial residential military and aerospace environments this book is meant to help engineers operating in all these areas to stay up to date on the most recent advances in the field as well as to be a vehicle for clarifying increasingly complex theories and mathematics this book will be a cost effective and convenient way for engineers to get up to speed on the latest trends in power electronics the reader will obtain the same level of informative instruction as they would if attending an ieee course or a training session but without ever leaving the office or living room the author is in an excellent position to offer this instruction as he teaches many such courses self learning advanced tutorial falling between a traditional textbook and a professional reference almost every page features either a detailed figure or a bulleted chart accompanied by clear descriptive explanatory text

a comprehensive guide to understanding ac machines with exhaustive simulation models to practice design and control nearly seventy percent of the electricity generated worldwide is used by electrical motors worldwide huge research efforts are being made to develop commercially viable three and multi phase motor drive systems that are economically and

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force machines i.e dc synchronous and induction machines the rotating transformer model forms the basis for this generalized modeling approach that ultimately leads to the development of universal field oriented control algorithms in case of switched reluctance machines torque observers are proposed to implement direct torque algorithms from a didactic viewpoint tutorials are included at the end of each chapter the reader is encouraged to execute these tutorials to familiarize him or herself with all aspects of drive technology hence advanced electrical drives encourages learning by doing furthermore the experienced drive specialist may find the simulation tools useful to design high performance controllers for all sorts of electrical drives

the proceedings of the april 1996 symposium address a wide variety of applications ranging from vehicle systems to mechatronic systems further they illuminate the relevancy of more fundamental areas such as control of chaos and optimal control the 51 contributions promote theoretical and applied investigations with respect to the interaction of dynamics and control in advanced engineering applications additional topics include motion control dynamics and bifurcation of nonlinear systems modelling and dynamics of engineering systems vibration control adaptive control optimization and control mechatronic systems modelling control of engineering systems system identification and analysis and control of nonlinear systems papers are arranged alphabetically by the first author's last name and there is an author index only no subject index annotation copyrighted by book news inc portland or

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