

MATRIX AND SPACE-PHASOR THEORY OF ELECTRICAL MACHINES

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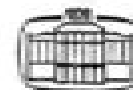
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Matrix And Space Phasor Theory Of Electrical Machines

K.D. Young, Ü. Özgüner



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concepts This book is meant for the senior level undergraduate and postgraduate students of electrical engineering KEY FEATURES Contains number of solved examples and self explanatory figures Provides alternative explanations of operating features of machines in order to bring a parity between classical methods explaining the operations and unified theory explaining the working machines Incorporates practical exercises both objective and numerical types **Computer Field Models of Electromagnetic Devices** Sławomir Wiak, Ewa Napieralska-Juszczak, 2010 Computer Field Models of Electromagnetic Devices volume 34 in the book series Studies in Applied Electromagnetics and Mechanics is devoted to modeling and simulation control systems testing measurements monitoring diagnostics and advanced software **Electric Machines Dynamics & Control** Syed A. Nasar, Ion Boldea, 1992-11-09 This volume emphasizes the dynamics of electric machines and their control by power electronic devices in conjunction with microprocessors Topics considered include the space phasor model used to study field oriented control of induction and synchronous machines and machine transients and control **Generalized Theory of Electrical Machines** Dr. Viswaprakash Babu, 2025-05-31 Generalized Theory of Electrical Machines provides a comprehensive framework for analyzing and understanding all types of electrical machines using a unified approach It covers synchronous induction and DC machines emphasizing mathematical modeling dynamic behavior and performance analysis making it an essential reference for students researchers and practicing engineers

Whitaker's Books in Print, 1990 *Electrical Machines and Drives* Peter Vas, 1992 The operation and simulation of a c and d c machines and a large number of variable speed drives including some of the most recently introduced modern drives are discussed here and a general theory applicable during their steady state and transient operation is presented Although the detailed mathematical analysis given relies mainly on space vector theory the relationship to other theories including the matrix theory of generalized machine theory is also emphasized Many of the equations are given in their state variable or analytical forms so that they can be used directly for computer simulations or for hand calculations Novel features of this book include descriptions of the exact and simplified performance analysis of a c machines and a large number of variable speed drives both large and small signal equations magnetic saturation effects are incorporated into the different models of smooth air gap and salient pole machines and extension of the space vector model to the double cage induction machine and the salient pole synchronous machine It is also demonstrated how all the various machine models used in the matrix model of electrical machines can be obtained without having to use matrix transformations while a systematic approach is given for the a priori deduction of all the transformations used in general machine theory Electrical Machines and Drives can be used without any prior knowledge of space vector or other theories it is aimed at students teachers and those researchers in industry and universities who require a deep understanding of the various aspects of the operation and the theories of electrical machines and drives and their simulation **The Theory of Machines and Mechanisms** Javier García-Lomas, Alfredo Navarro, 1987 *Conference Record of the 1989 IEEE Industry Applications Society Annual Meeting*

IEEE Industry Applications Society. Meeting,1989 *Bulletin of the Institution of Engineers (India)*. Institution of Engineers (India),1987 **Vector Control of AC Machines** Peter Vas,1990 Vector control has become a powerful and frequently adopted technique in recent years This book discusses in detail the various forms of vector control of smooth air gap and salient pole electrical machines supplied by impressed stator voltages or currents or impressed rotary currents

Periodica Polytechnica ,1999 Hungarian Book Review ,1987 **Variable Structure Systems, Sliding Mode and Nonlinear Control** K.D. Young,Ü. Özgüner,1999-08-18 This book comprises a selection of papers that were first presented at VSS98 5th International Workshop on Variable Structure Systems held in Sarasota Florida This workshop was the fifth in a series of VSS international workshops and the first to be held in the United States Work presented herein on theoretical developments and applications on VSS and Sliding Mode reflects how trends have advanced beyond the original ideas that are now well documented in a number of books and research monographs In particular the concepts of Sliding Sector and Second Order Sliding Mode introduced in this volume will stimulate discussions and invite further extensions Also the focus on Sampled Data systems represents a positive trend towards practical industrial implementations of sliding mode controllers **Conference Publication** ,1990 **Proceedings of the IEEE International Symposium on Industrial Electronics** ,1993 **Proceedings** ,1992

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