



Electrical machines and drives: a space-vector theory approach, Peter Vas, Clarendon Press, 1992, 0198593783, 9780198593782, 808 pages. 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..

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