



Matrix Analysis of Electrical Machinery

N. N. Hancock

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Matrix Analysis of Electrical Machinery, Second Edition focuses on the systematic matrix analysis of the performance of electrical machinery, including circuits, current transformation, and matrix techniques. The manuscript first covers the elements of matrix algebra, application of matrix algebra to static electrical networks, and transformers. Topics include three-winding transformers, transformation of voltage and impedance for invariant power with a given current transformation, linear transformation in electrical circuit analysis, differentiation and integration of a matrix, linear transformation, matrix representation of simultaneous equations, and alternative methods of inversion. The book then ponders on matrix equations of the basic rotating machines, torque expressions, linear transformations in circuits and machines, and application of matrix techniques to routine performance calculations. Discussions focus on phasor diagrams and equivalent circuits, analysis of three-phase machines, physical interpretation of various sets of axes, equivalence of three-phase and two-phase systems, energy stored in the magnetic fields, and matrix equations of slip-ring and squirrel-cage machines. The text takes a look at miscellaneous machine problems, small oscillations, and steady-state performance of polyphase machines. The publication is a fine reference for researchers wanting to explore the matrix analysis of electrical machinery.

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