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Transient Stability Analysis of Synchronous Motors (Studies in Electrical and Electronic Engineering)

Jiri Cemus, Vaclav Hamata

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The synchronous motor, despite its apparently inherent drawbacks, has become one of the most commonly used driving units for supplying power. In particular, the rapid progress in high-power semiconductor technology has opened up attractive possibilities for designing fast and multivariable controllers for handling abnormal operational conditions. A systematic study of the questions related to the nonstationary performance of synchronous motors accompanied by a change in kinetic energy of their inertial masses is presented in this volume. Special attention is paid to the transient stability of synchronous motors subjected to various abnormal operating conditions. The generalized investigations fully exploit the optimization offered by computer methods, enabling the authors to avoid the basic drawbacks of the purely analytical methods and to draw up some generalized diagrams of the ultimate transient stability limits. Theoretical results are compared with a number of practical examples. Of the transient faults, the problems of resynchronisation are the most closely examined, e.g.

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