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Quantitative Fault Tree Analysis: This type of FTA applies statistical data to determine the probability of the top event (system failure) occurring. It uses failure rates and event probabilities to compute the probability of the undesired event.

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A general analysis of large-scale power systems containing mixed rotating machines and inverters of balanced and unbalanced short-circuit faults and unbalanced open-circuit faults is presented. Fault analysis in the ryb phase frame of reference is briefly discussed.

This book provides a comprehensive practical treatment of the modelling of electrical power systems, and the theory and practice of fault analysis of power systems covering detailed and advanced theories as well as modern industry practices. The continuity and quality of electricity delivered safely and economically by today's and future's electrical power networks are ...

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The correct modelling of power system equipment and correct fault analysis of electrical networks are pre-requisite to ensuring safety and they play a critical role in the identification of economic network investments.

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Fault tree analysis (FTA) is a top-down approach to failure analysis, starting with a potential undesirable event (accident) called a TOP event, and then determining all the ways it can happen. The analysis proceeds by determining how the TOP event can be caused by individual or combined lower level failures or events.

Providing a comprehensive and practical treatment of the modeling of electrical power systems, the book offers students and professionals the theory and practice of fault analysis of power systems, covering detailed and advanced theories and modern industry practices.

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