Analytical Approach for Optimizing Substation Maintenance

Dr. J M Long

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The primary objective of this book is to develop models and algorithms to study the impact of maintenance toward equipment/system reliability and economic cost, and to optimize maintenance schedules in a substation to improve the overall substation reliability while decreasing the cost. Firstly, stochastic-based equipment-level reliability and economic models are developed depending on maintenance types. Semi-Markov processes are deployed to represent deteriorations, failures, inspection, maintenance and replacement states for reliability modeling; semi-Markov decision processes are implemented for economic cost evaluations considering capital investment, operations and maintenance cost, and outage cost. Secondly, substation level reliability and economic cost models are established based on equipment level models. Sensitivity studies for analyzing the impact of equipment maintenance toward system level reliability and overall system cost are conducted. Finally, maintenance optimization scenarios and solutions are developed, to determine optimal equipment maintenance rates that maximize substation reliability or minimize overall cost, while meeting operational and economic cost constraints, based on Particle Swarm Optimization techniques.

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