

RELIABILITY ESTIMATION OF BRIDGE NETWORK USING MONTE CARLO SIMULATION

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Abstract

The present paper is devoted to the Monte Carlo simulation method. Reliability characteristics, such as probability of survival, mean time to failure, availability, mean down time and frequency of failures are estimated through Monte Carlo simulation. Although simulation is often viewed as a “Method of last resort” to be employed when everything else has failed, recent advances in simulation methodologies, availability of software and technical development have made simulation one of the most widely used accepted tools in system analysis and operation research. The simulation technique used in present paper for reliability estimation of bridge network is Monte Carlo simulation.

Key Words : *Bridge Network, Reliability, Monte Carlo Simulation, Availability.*

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