Dependability of Networked Computer-based Systems (Springer Series in Reliability Engineering)

Ajit Kumar Verma, Srividya Ajit, Manoj Kumar

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The measurement of dependability attributes on real systems is a very time-consuming and costly affair, making analytical or simulation modeling the only viable solutions. *Dependability of Networked Computer-based Systems* explores reliability, availability and safety modeling of networked computer-based systems used in life-critical applications such as avionics, nuclear power plants, automobiles and chemical process industries.

Dependability of Networked Computer-based Systems gives an overview of basic dependability modeling concepts and addresses new challenges in dependability modeling of networked computer-based systems, as well as new trends, their capabilities and limitations. It covers a variety of dependability modeling methods:

- stochastic processes,
- Markov and semi-Markov models,
- response-time distribution,
- stochastic Petri-net-based modeling formalisms, and
- Monte Carlo simulation models.

Dependability of Networked Computer-based Systems provides students and researchers with a detailed overview of dependability models and analysis techniques. Practicing engineers will also find this text a useful guide to decision-making based on system dependability at the design, operation and maintenance stages.

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