



Random Maintenance Policies (Springer Series in Reliability Engineering)

By Toshio Nakagawa

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Exploring random maintenance models, this book provides an introduction to the implementation of random maintenance, and it is one of the first books to be written on this subject. It aims to help readers learn new techniques for applying random policies to actual reliability models, and it provides new theoretical analyses of various models including classical replacement, preventive maintenance and inspection policies. These policies are applied to scheduling problems, backup policies of database systems, maintenance policies of cumulative damage models, and reliability of random redundant systems.

Reliability theory is a major concern for engineers and managers, and in light of Japan's recent earthquake, the reliability of large-scale systems has increased in importance. This also highlights the need for a new notion of maintenance and reliability theory, and how this can practically be applied to systems.

Providing an essential guide for engineers and managers specializing in reliability maintenance and quality control, this book provides a useful resource for those with doubts carrying out maintenance of new and large systems. It is also intended for graduate students and researchers interested in operations research, statistics, industrial engineering and management science.

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Editorial Review

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About the Author

Dr. Toshio Nakagawa has worked for four decades in the field of maintenance modelling in Reliability Theory. He retired from Aichi Institute of Technology, Japan, and now is an honorary and visiting professor there. He has worked extensively on optimization problems in operations research, management science, analysis for industrial systems, and computer systems in reliability and maintenance theory. He has published more than 200 papers in reputed international journals and 5 academic monographs from Springer.

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