



System Reliability Theory: Models, Statistical Methods, and Applications, 2nd Edition (Wiley Series in Probability and Statistics)

By Marvin Rausand, Arnljot Høyland

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A thoroughly updated and revised look at system reliability theory

Since the first edition of this popular text was published nearly a decade ago, new standards have changed the focus of reliability engineering and introduced new concepts and terminology not previously addressed in the engineering literature. Consequently, the Second Edition of System Reliability Theory: Models, Statistical Methods, and Applications has been thoroughly rewritten and updated to meet current standards.

To maximize its value as a pedagogical tool, the Second Edition features:

- Additional chapters on reliability of maintained systems and reliability assessment of safety-critical systems
- Discussion of basic assessment methods for operational availability and production regularity
- New concepts and terminology not covered in the first edition
- Revised sequencing of chapters for better pedagogical structure
- New problems, examples, and cases for a more applied focus
- An accompanying Web site with solutions, overheads, and supplementary information

With its updated practical focus, incorporation of industry feedback, and many new examples based on real industry problems and data, the Second Edition of this important text should prove to be more useful than ever for students, instructors, and researchers alike.

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"Students will like this well-written book, and statisticians with interest in distribution theory will find it thought provoking." (*Journal of Statistical Computation and Simulation*, June 2005)

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"...provides a comprehensive treatment of system reliability theory" (*Short Book Reviews*, August 2004)

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About the Author

MARVIN RAUSAND is a Professor in the Department of Production and Quality Engineering at the Norwegian University of Science and Technology.

The late **ARNLJOT HØYLAND, PhD**, was a Professor in the Department of Mathematical Sciences at the Norwegian University of Science and Technology. Dr. Høyland died in December 2002 at the age of 78.

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