

# **An Introduction To Reliability And Maintainability Engineering By Charles E Ebeling**

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## **An Introduction To Reliability And**

The handbook edited by prof. Ebeling is a good resource to introduce the reliability problems. The book has a mathematical structure, with very detailed demonstrations of relations and formulas. However, differently from the main books treating the argument, Ebeling introduces a large number of solved exercises with practical cases.

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Many books on reliability focus on either modeling or statistical analysis and require an extensive background in probability and statistics. Continuing its tradition of excellence as an introductory text for those with limited formal education in the subject, this classroom-tested book introduces the necessary concepts in probability and statistics within the context of their application to reliability.

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"An Introduction to Reliability Engineering" will give you a foundational understanding of these key ideas and prepare you for more advanced training. While an advanced understanding of statistics is required to become a reliability engineer, only a basic understanding of manufacturing, mathematics and Microsoft Excel is required to get started in this class.

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The outline of the chapter is as follows: Section 4.1 defines basic concepts of reliability, like functions, failures, and failure modes and effects. Section 4.2 introduces reliability measures and lifetime models with focus on the exponential and Weibull models.

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