



# An Introduction to Reliability and Maintainability Engineering

*Charles E. Bbeling*

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An Introduction to Reliability and Maintainability Engineering is unique in its broad and practical coverage of the fundamental concepts, models, and analysis techniques necessary to perform R&M engineering. Presented in a well-organized and straightforward manner, it is designed for courses in engineering, engineering technology, operations research, and similar technical fields. Ebeling addresses basic reliability models; covariate models; and hazard rate functions, systems reliability, FMECA, and fault tree analysis; as well as R&M design methods based on availability and life cycle costs. Also provided is a foundation for models on maintenance, renewal, and minimal repair; access to the treatment of censored data and the many facets of reliability testing; and an outline of probability plots, curve fitting, maximum likelihood estimation, and goodness-of-fit tests. Unlike other R&M books, the Ebeling volume assumes the student has limited familiarity with probability and statistics. In order to focus on R&M concepts and applications, these principles are defined and developed as needed. Also included are numerous examples, illustrations, and exercises, which are supplemented by software that will assist with the performance of numerous data analysis calculations and the implementation of many R&M models.

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