

Achieving Product Reliability

A Key to Business Success

Are you buying a car or smartphone or dishwasher? We bet long-term, trouble-free operation (i.e., high reliability) is among the top three things you look for. Reliability problems can lead to everything from minor inconveniences to human disasters. Ensuring high reliability in designing and building manufactured products is principally an engineering challenge—but statistics plays a key role. *Achieving Product Reliability* explains in a non-technical manner how statistics is used in modern product reliability assurance. Features: - Describes applications of statistics in reliability assurance in design, development, validation, manufacturing, and field tracking. - Uses real-life examples to illustrate key statistical concepts such as the Weibull and lognormal distributions, hazard rate, and censored data. - Demonstrates the use of graphical tools in such areas as accelerated testing, degradation data modeling, and repairable systems data analysis. - Presents opportunities for profitably applying statistics in the era of Big Data and Industrial Internet of Things (IIoT) utilizing, for example, the instantaneous transmission of large quantities of field data. Whether you are an intellectually curious citizen, student, manager, budding reliability professional, or academician seeking practical applications, *Achieving Product Reliability* is a great starting point for a big-picture view of statistics in reliability assurance. The authors are world-renowned experts on this topic with extensive experience as company-wide statistical resources for a global conglomerate, consultants to business and government, and researchers of statistical methods for reliability applications.

 fachmedien.de
WISSEN. EINFACH. FINDEN.

113,50 €

106,07 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781032019963

Medium: Buch

ISBN: 978-1-032-01996-3

Verlag: Taylor & Francis Ltd (Sales)

Erscheinungstermin: 22.06.2021

Sprache(n): Englisch

Auflage: 1. Auflage 2021

Serie: ASA-CRC Series on Statistical Reasoning in Science and Society

Produktform: Gebunden

Gewicht: 435 g

Seiten: 248

Format (B x H): 140 x 216 mm

