DESCRIPTION

Learn how ART and ADT can reduce cost, time, product recalls, and customer complaints

This book provides engineers with the techniques and tools they need to use accelerated reliability testing (ART) and accelerated durability testing (ADT) as key factors to accurately predict a product’s quality, reliability, durability, and maintainability during a given time, such as service life or warranty period. It covers new ideas and offers a unique approach to accurate simulation and integration of field inputs, safety, and human factors, as well as accelerated product development, as components of interdisciplinary systems engineering.

Beginning with a comprehensive introduction to the subject of ART and ADT, the book covers:

• ART and ADT as components of an interdisciplinary systems of systems approach

• Methodology of ART and ADT performance
• Equipment for ART and ADT technology

• ART and ADT as sources of initial information for accurate quality, reliability, maintainability, and durability prediction and product accelerated development

• The economical results of the usage of ART and ADT

• ART and ADT standardization

The book covers the newest techniques in the field and provides many case studies that illuminate how the implementation of ART and ADT can solve previously inaccessible problems in the field of engineering, such as reducing product recalls, cost, and time during design, manufacture, and usage. Professionals will find the answers to how one can carry out ART and ADT technology in a practical manner.

Accelerated Reliability and Durability Testing Technology is indispensable reading for engineers, researchers in industry, usage, and academia who are involved in the design of experiments, field simulations, maintenance, reliability, durability, accurate prediction, and product development, and graduate students in related courses.

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**ABOUT THE AUTHOR**

**Lev M. Klyatis**, Hab. Dr.-Ing., Sc.D, PhD, is Senior Consultant at SoHaR, Inc. and a member of the board of directors of the International Association of Arts & Sciences in New York. His vast experience and innovation enabled him to create a new approach for the solution of reliability/durability/maintainability problems. Previously, Dr. Klyatis held posts as a professor, chairman, chair of department, consultant, and lecturer. He holds more than thirty patents worldwide, and is the author of dozens of papers as well as the books Successful Accelerated Testing and Accelerated Quality and Reliability Solutions.
FEATURES

Consists of 56 tables, 177 illustrations, and 300 references

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