Environmental Stress Screening - Its Quantification, Optimization and Management

Description: With the growth of the electronics industry, environmental stress screening (ESS) has become an essential tool for the production of failure-free electronic assemblies, modules and systems. This handbook provides a thorough introduction and guide to ESS methods and applications. Numerous case histories illustrate practical uses of ESS.

The authors cover the theoretical aspects of environmental stress screening thoroughly, including: history and evolution of the field; definitions and related concepts; and various types of environmental stress screening.

Features

- Up-to-date military standards and directives
- Handy guides and tables
- Dynamic procedures and tailoring techniques
- Case histories from government and industry
- FORTRAN programs for environmental stress screening

Contents: Problems and reference sections are included in each chapter.

Preface

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- How ESS Works?
- What This Book Offers?

Chapter 2 - Historical Perspective of ESS

Chapter 3 - ESS Definitions, Basic Concepts and Common Misconceptions
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- Equivalent Acceleration Factor Evaluation Using Eq. (7.27)
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