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Nota di contenuto	Title Page; Copyright; Contents; List of Figures; List of Tables ; About the Author ; Preface; Chapter 1 Equilibrium Thermodynamic Degradation Science ; 1.1 Introduction to a New Science; 1.2 Categorizing Physics of Failure Mechanisms; 1.3 Entropy Damage Concept; 1.3.1 The System (Device) and its Environment; 1.3.2 Irreversible Thermodynamic Processes Cause Damage; 1.4 Thermodynamic Work; 1.5 Thermodynamic State Variables and their Characteristics; 1.6 Thermodynamic Second Law in Terms of System Entropy Damage; 1.6.1 Thermodynamic Entropy Damage Axiom; 1.6.2 Entropy and Free Energy 1.7 Work, Resistance, Generated Entropy, and the Second Law1.8 Thermodynamic Catastrophic and Parametric Failure; 1.8.1 Equilibrium and Non-Equilibrium Aging States in Terms of the Free Energy or Entropy Change; 1.9 Repair Entropy; 1.9.1 Example 1.1: Repair Entropy: Relating Non-Damage Entropy Flow to Entropy Damage; Summary ; References; Chapter 2 Applications of Equilibrium Thermodynamic Degradation to Complex and Simple Systems: Entropy Damage,

Vibration, Temperature, Noise Analysis, and Thermodynamic Potentials
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Rule Example; 2.1.3 Non-Cyclic Applications of Cumulative Damage;
2.2 Measuring Entropy Damage Processes; 2.3 Intermediate
Thermodynamic Aging States and Sampling; 2.4 Measures for System-
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Example 2.6: Gaussian Noise Vibration Damage; 2.5.2 Example 2.7:
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