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Autore	Gerdeen James C
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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Front Cover; Contents; Preface; Acknowledgment; Authors; Chapter 1: Introduction; Chapter 2: Mechanical Properties of Polymers; Chapter 3: Viscoelastic Behavior of Polymers; Chapter 4: Creep and Fatigue Failure; Chapter 5: Impact Strength and Fracture Toughness; Chapter 6: Selection of Polymers for Design Applications; Chapter 7: Design Applications of Some Polymers; Chapter 8: Composite Material Mechanics; Chapter 9: Composite Laminate Failure; Chapter 10: Polymer Processing; Chapter 11: Adhesion of Polymers and Composites; Chapter 12: Polymer Fusing and Other Assembly Techniques Chapter 13: Tribology of Polymers and CompositesChapter 14: Damping and Isolation with Polymers and Composites; Chapter 15: Rapid Prototyping with Polymers; Chapter 16: Piezoelectric Polymers; Appendix A: Conversion Factors; Appendix B: Area Moments of Inertia; Appendix C: Beam Reactions and Displacements; Appendix D: Laminate MATLAB® or Octave Code; Appendix E: Sample Input/Output for Laminate Program; Appendix F: Composite Materials Properties; Appendix G: Thermal and Electrical Properties

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PropertiesStatic Failure TheoriesCreep PropertiesRelaxation
PropertiesDynamic PropertiesLarge Strain DefinitionsAnalysis of
DampingTime Hardening CreepIsochronous Creep CurvesViscoelastic
Behavior of PolymersMechanical ModelsMathematical ModelsThe
Maxwell FluidThe Kelvin SolidThe Fou
