Universitas Indonesia Library >> eBooks

Tensile testing

Deskripsi Lengkap: https://lib.ui.ac.id/detail?id=20442557&lokasi=lokal

Abstrak

Seeking to provide an introduction to those new to tensile testing as well as to those who need more detailed information to use in the course of professional practice. They start with the basics, including explaining the stress-strain curve and test methodology, then proceed to the mechanical behavior of materials under tensile loads.

Contents:

- Preface
- Chapter 1: Introduction to tensile testing
- Chapter 2: Mechanical behavior of materials under tensile loads
- Chapter 3: Uniaxial tensile testing
- Chapter 4: Tensile testing equipment and strain sensors
- Chapter 5: Tensile testing for design
- Chapter 6: Tensile testing for determining sheet formability
- Chapter 7: Tensile testing of metals and alloys
- Chapter 8: Tensile testing of plastics
- Chapter 9: Tensile testing of elastomers
- Chapter 10: Tensile testing of ceramics and ceramic-matrix composites
- Chapter 11: Tensile testing of fiber-reinforced composites
- Chapter 12: Tensile testing of components
- Chapter 13: Hot tensile testing
- Chapter 14: Tensile testing at low temperatures
- Chapter 15: High strain rate tensile testing
- Glossary of terms
- Reference tables
- Index