

MECHANICAL ENGINEERING DEPARTMENT LAB MANUAL

Material Testing Lab (Subject Code: KME 352)

List of Experiments:

Objectives:

- To understand the principles and performance characteristics different materials.
- To know about material properties.

1. Strength test of a given mild steel specimen on UTM with full details and stress versus strain plot on the machine.
2. Other tests such as shear, bend tests on UTM.
3. Impact test on impact testing machine like Charpy, Izod or both.
4. Hardness test of given specimen using Rockwell and Vickers/Brinell testing machines.
5. Spring index test on spring testing machine.
6. Fatigue test on fatigue testing machine.
7. Creep test on creep testing machine.
8. Experiment on deflection of beam, comparison of actual measurement of deflection with dial gauge to the calculated one, and or evaluation of young's modulus of beam.
9. Torsion test of a rod using torsion testing machine.
10. Study of NDT (non-destructive testing) methods like magnetic flaw detector, ultrasonic flaw detector, eddy current testing machine, dye penetrant tests.

Course Outcomes: The students who have undergone the course will be able to measure various properties of materials.

Experiment 1 (Tensile Test)

OBJECTIVE: Strength test of a given mild steel specimen on UTM with full details and

Material Testing Lab Manual In Mechanical Engineering

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Material Testing Lab Manual In Mechanical Engineering:

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Table of Contents Material Testing Lab Manual In Mechanical Engineering

1. Understanding the eBook Material Testing Lab Manual In Mechanical Engineering
 - The Rise of Digital Reading Material Testing Lab Manual In Mechanical Engineering
 - Advantages of eBooks Over Traditional Books
2. Identifying Material Testing Lab Manual In Mechanical Engineering
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Material Testing Lab Manual In Mechanical Engineering
 - User-Friendly Interface
4. Exploring eBook Recommendations from Material Testing Lab Manual In Mechanical Engineering
 - Personalized Recommendations
 - Material Testing Lab Manual In Mechanical Engineering User Reviews and Ratings
 - Material Testing Lab Manual In Mechanical Engineering and Bestseller Lists
5. Accessing Material Testing Lab Manual In Mechanical Engineering Free and Paid eBooks
 - Material Testing Lab Manual In Mechanical Engineering Public Domain eBooks
 - Material Testing Lab Manual In Mechanical Engineering eBook Subscription Services
 - Material Testing Lab Manual In Mechanical Engineering Budget-Friendly Options
6. Navigating Material Testing Lab Manual In Mechanical Engineering eBook Formats

- ePub, PDF, MOBI, and More
 - Material Testing Lab Manual In Mechanical Engineering Compatibility with Devices
 - Material Testing Lab Manual In Mechanical Engineering Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Material Testing Lab Manual In Mechanical Engineering
 - Highlighting and Note-Taking Material Testing Lab Manual In Mechanical Engineering
 - Interactive Elements Material Testing Lab Manual In Mechanical Engineering
 8. Staying Engaged with Material Testing Lab Manual In Mechanical Engineering
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Material Testing Lab Manual In Mechanical Engineering
 9. Balancing eBooks and Physical Books Material Testing Lab Manual In Mechanical Engineering
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Material Testing Lab Manual In Mechanical Engineering
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Material Testing Lab Manual In Mechanical Engineering
 - Setting Reading Goals Material Testing Lab Manual In Mechanical Engineering
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Material Testing Lab Manual In Mechanical Engineering
 - Fact-Checking eBook Content of Material Testing Lab Manual In Mechanical Engineering
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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