

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

Mechanical Engineering Material Testing Lab Manual

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Table of Contents Mechanical Engineering Material Testing Lab Manual

1. Understanding the eBook Mechanical Engineering Material Testing Lab Manual
 - The Rise of Digital Reading Mechanical Engineering Material Testing Lab Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Engineering Material Testing Lab Manual
 - 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 a Mechanical Engineering Material Testing Lab Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Engineering Material Testing Lab Manual
 - Personalized Recommendations
 - Mechanical Engineering Material Testing Lab Manual User Reviews and Ratings
 - Mechanical Engineering Material Testing Lab Manual and Bestseller Lists
5. Accessing Mechanical Engineering Material Testing Lab Manual Free and Paid eBooks
 - Mechanical Engineering Material Testing Lab Manual Public Domain eBooks
 - Mechanical Engineering Material Testing Lab Manual eBook Subscription Services
 - Mechanical Engineering Material Testing Lab Manual Budget-Friendly Options

6. Navigating Mechanical Engineering Material Testing Lab Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanical Engineering Material Testing Lab Manual Compatibility with Devices
 - Mechanical Engineering Material Testing Lab Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanical Engineering Material Testing Lab Manual
 - Highlighting and Note-Taking Mechanical Engineering Material Testing Lab Manual
 - Interactive Elements Mechanical Engineering Material Testing Lab Manual
8. Staying Engaged with Mechanical Engineering Material Testing Lab Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanical Engineering Material Testing Lab Manual
9. Balancing eBooks and Physical Books Mechanical Engineering Material Testing Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Engineering Material Testing Lab Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mechanical Engineering Material Testing Lab Manual
 - Setting Reading Goals Mechanical Engineering Material Testing Lab Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanical Engineering Material Testing Lab Manual
 - Fact-Checking eBook Content of Mechanical Engineering Material Testing Lab Manual
 - 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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