

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 Mechanical

Wolfgang Guggemos



Material Testing Lab Manual Mechanical:

Whispering the Techniques of Language: An Psychological Journey through **Material Testing Lab Manual Mechanical**

In a digitally-driven world where monitors reign great and quick transmission drowns out the subtleties of language, the profound secrets and psychological subtleties concealed within words frequently get unheard. Yet, nestled within the pages of **Material Testing Lab Manual Mechanical** a interesting literary prize pulsing with raw feelings, lies a fantastic journey waiting to be undertaken. Composed by a skilled wordsmith, that marvelous opus attracts readers on an introspective journey, lightly unraveling the veiled truths and profound influence resonating within the cloth of each and every word. Within the psychological depths of this emotional evaluation, we will embark upon a sincere exploration of the book is core styles, dissect their interesting writing style, and yield to the powerful resonance it evokes heavy within the recesses of readers hearts.

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