



**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.

Material Testing Mechanical Engg Lab Manual

Samuel James Record



Material Testing Mechanical Engg Lab Manual:

Laboratory Manual on Testing of Engineering Materials Hamant. Sood, 2003 Primarily Written For The Students Of Civil Engineering And Practising Engineers Involved In The Testing Of Building Materials The Manual Describes In Straight Forward And Systematic Manner The Testing Of Engineering Materials Each Test Given In The Manual Outlines The Objectives Theory Apparatus Requirements Procedures Precautions Questions For Discussion And Observations And Calculations For All The Tests Specified The Procedure Is Based On The Relevant Indian Standard Code Of Practice Which Is The Usual Accepted Method Of Performing The Tests The Manual Can Be Used By Students And Field Engineers For Keeping The Record Of Tests Performed In The Laboratory Since Each Test Requires A Different Reference Of The Indian Standard Codes It May Not Be Practically Feasible In The Field Conditions And Therefore This Manual Comes Quite Handy For These Situations It Will Be Invaluable And Indispensable Manual For Imparting Effective Instructions To Diploma And Under Graduate Level Students As Also To Field Engineers

Mechanical Engineering Laboratory Manual Earl B. Smith, 1909
Free Night School of Engineering Cooper Union for the Advancement of Science and Art. School of Engineering, 1928
Mechanical Engineers' Handbook, 1916 Cement Laboratory Manual Leslie Abram Waterbury, 1908 **Standard Handbook for Mechanical Engineers**, 1923 **The Mechanical Properties of Wood, Including a Discussion of the Factors Affecting the Mechanical Properties, and Methods of Timber Testing** Samuel James Record, 1914

Mechanical Engineers' Handbook Lionel Simeon Marks, 1916 The Mechanical Properties of Wood Samuel J. Record, 2022-09-16 In The Mechanical Properties of Wood Samuel J Record embarks on an exhaustive exploration of wood s physical characteristics delving into the factors influencing its structural integrity and various methodologies for testing timber Record s work stands as a seminal contribution to the study of natural materials juxtaposing scientific examination with an accessible narrative style As such the book situates itself at the intersection of industrial application and academic inquiry solidifying its relevance within both the forestry sector and the broader scientific community The elaborate details and precise analyses presented stand testament to the book s enduring value as a resource on the subject Samuel J Record s scholarly pedigree shines through in his comprehensive treatise drawing from his vast experience and insight into wood science It is likely that Record s academic background and professional immersion in the field inspired his rigorous examination of timber s mechanical properties His expertise is evident in the depth of content revealing not only technical mastery but also a sincere endeavor to disseminate knowledge to a spectrum of readers from professionals to enthusiasts The republication of Record s The Mechanical Properties of Wood by DigiCat Publishing offers both initiates and experts in the field an invaluable reference Scholars seeking a meticulous and historical perspective on wood science will find Record s analysis indispensable while practitioners in forestry and material engineering will appreciate the practical implications of his findings This piece of literature beyond its immediate utility also serves as a bridge between past and present discourse

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