

pendulum to smash the specimen.

6. Carefully operate the pendulum brake when returning after one swing to stop the oscillations.

7. Read-off position of reading pointer on dial and note indicated value.

8. Remove the broken specimen by loosening the clamping screw.

The notch impact strength depends largely on the shape of the specimen and the notch. the values determined with other specimens therefore may not be compared with each other.

**TABLE:**

| S.NO | Area of cross section specimen (A) | Impact Energy (K) | I (Impact strength) |
|------|------------------------------------|-------------------|---------------------|
|      |                                    |                   |                     |
|      |                                    |                   |                     |
|      |                                    |                   |                     |

|                                   | Charpy Impact Testing                             | Izod Impact Testing  |
|-----------------------------------|---|--|
| <b>Materials Tested</b>           | Metals  | Plastics & Metals  |
| <b>Types of Notches</b>           | U-notch and V-notch                               | V-notch only   |
| <b>Position of the Specimen</b>   | Horizontally, notch facing away from the pendulum | Vertically, notch facing toward the pendulum                     |
| <b>Striking Point</b>             | Middle of the sample                              | Upper Tip of the sample  |
| <b>Common Specimen Dimensions</b> | 55 x 10 x 10 mm                                   | 64 x 12.7 x 3.2 mm (plastic) or 127 x 11.43 mm round bar (metal) |
| <b>Common Specifications</b>      | ASTM E23, ISO 148, or EN 10045-1                  | ASTM D256, ASTM E23, and ISO 180                                 |

**PRECAUTIONS:**

1. Measure the dimensions of the specimen carefully.
2. Locate the specimen in such a way that the hammer. Strikes it at the middle.
3. Note down readings carefully.

**RESULT:**

The Impact strength of the given specimen is  $\text{-----} \frac{J}{m^2}$

**VIVA QUESTIONS:**

1. In what way the values of impact energy will be influenced if the impact tests are conducted on two specimens, one having smooth surface and the other having scratches on the surface
2. What is the effect of temp? On the values of rupture energy and notch impact strength?

# Strength Of Materials Lab Manual

**P. M. Swamy**



## **Strength Of Materials Lab Manual:**

**Strength of Materials Lab Manual** Anand A,2020-11-06 Strength of Materials Laboratory Manual is an exercise book for the Strength of Materials Laboratory course It contains 13 exercises that are part of the course LIST OF EXPERIMENTS  
1 Tension test on a mild steel rod 2 Double shear test on Mild steel and Aluminium rods 3 Torsion test on mild steel rod 4 Impact test on metal specimen 5 Hardness test on metals Brinnell and Rockwell Hardness Number 6 Deflection test on beams 7 Compression test on helical springs 8 Strain Measurement using Rosette strain gauge 9 Effect of hardening Improvement in hardness and impact resistance of steels 10 Tempering Improvement Mechanical properties Comparison i Unhardened specimen ii Quenched Specimen and iii Quenched and tempered specimen 11 Microscopic Examination of i Hardened samples and ii Hardened and tempered samples **Mechanics of Materials Laboratory Manual** G. A.

Olsen,1943 *A Laboratory Manual of Metals and Alloys* S. M. Ashraf,2008-12-08 This compendium of twenty laboratory experiments on metals and alloys attempts to provide to students of Science and Engineering an insight about the relationship of the physical specially mechanical properties of metals with grain structures microstructures In almost all the experiments therefore the microstructural investigation is provided Experiments have also been included on the determination of important mechanical and thermal properties and on the aqueous and atmospheric corrosion of metals Theoretical background of each experiment has been dealt with in good detail in order to enable the student to understand the underlying principles and to appreciate the significance of the experiments Information which could not be accommodated given in the text of the experiments has been provided in the form of appendices These include reflection microscopy experimental determination of transition points through cooling curves to get data for plotting phase diagrams and quenching media for tempering of alloys In view of the importance of microstructures for some metals and alloys have also been given *Laboratory Manual of Testing Materials* William Kendrick Hatt,Herbert Henry Scofield,1926

**Canadiana** ,1991 **Exercise Testing and Prescription Lab Manual** Edmund O. Acevedo,Michael A. Starks,2011 With a focus on foundational information this book offers a practical application of knowledge and skills associated with standardised health and fitness related tests **General Catalog** University of Colorado (Boulder campus),1954

**Engineering Practical Book Vol-II** Farrukh Hafeez , Mohd Arif,2017-03-30 The importance of practical training in engineering education as emphasized by the AICTE has motivated the authors to compile the work of various engineering laboratories into a systematic text and practical laboratory book The manual is written in a simple language and lucid style It is hoped that students will understand the manual without any difficulty and perform the experiments The first part of the book has been designed to cover the mechanics and testing of Materials as per ASTM standards It incorporates basics of mechanics required to handle the latest testing equipment s for testing of Materials Later half of the book covers the basic science and properties of materials along with the micro analysis of the materials Brief theory and basic fundamentals have

been incorporated to understand the experiments and for the preparation of lab report independently Sample calculations have been provided to help the students in tabulating the experimental and theoretical results comparing and interpreting them within technical frame The book also covers the general aspects for the preparation of a technical report and precautions to be taken in the laboratories for accurate and save performance of experiments In end of each experiment questions related to each experiment have been provided to test the depth of knowledge gained by the students The manual has been prepared as per the general requirements of strength of material laboratory and Material science text laboratories for any graduate and Diploma level class syllabus Material mechanics testing and their analysis is an important engineering aspect and its knowledge is applied in almost all industries We hope that manual would be useful for establishing a new laboratory and for the students of all branches Any suggestions for further improvement of the manual will be welcome and incorporated in the next edition      **Laboratory Manual on Biotechnology** P. M. Swamy,2008      *Food Analysis*

*Laboratory Manual* S. Suzanne Nielsen,2010-03-20 This second edition laboratory manual was written to accompany Food Analysis Fourth Edition ISBN 978 1 4419 1477 4 by the same author The 21 laboratory exercises in the manual cover 20 of the 32 chapters in the textbook Many of the laboratory exercises have multiple sections to cover several methods of analysis for a particular food component of characteristic Most of the laboratory exercises include the following introduction reading assignment objective principle of method chemicals reagents precautions and waste disposal supplies equipment procedure data and calculations questions and references This laboratory manual is ideal for the laboratory portion of undergraduate courses in food analysis      Construction and Materials Manual ,1969      Mechanics of Materials John A. Weishampel,1944

Laboratory Manual of Food Microbiology Neelima Garg,K. L. Garg,K. G. Mukerji,2010 Principles of Laboratory Food Microbiology serves as a general laboratory guide for individuals in quality control quality assurance sanitation and food production who need to increase their knowledge and skills in basic and applied food microbiology and food safety This is a very useful book for food industry personnel with little or no background in microbiology or those who need a refresher course in basic microbiological principles and laboratory techniques Focusing on rudimentary skill building throughout the book provides a review of basic microbiological techniques media preparation aseptic techniques dilution plating etc followed by analytical methods and advanced tests for food borne pathogens It discusses basic microbiology techniques that evaluate the microbiota of various foods and enumerate indicator microorganisms It elaborates on conventional cultural techniques It also focuses on procedures for detecting pathogens in food offering students the opportunity to practice cultural and biochemical methods The final section examines beneficial microorganisms and their role in food fermentations concentrating on lactic acid bacteria acetic acid bacteria and yeast It provides an ideal text companion for an undergraduate or graduate laboratory course offering professors an authoritative frame of reference for their own supplementary materials and a useful reference for the food processing industry personnel as well as government and private organization linked with

food processing and microbial quality of the processed product The book is an essential text for microbiologists working in the food industry quality assurance personnel and academic researchers      **Announcement, College of Engineering** University of Colorado (Boulder campus). College of Engineering,1952      Anatomy & Physiology Laboratory Manual and E-Labs E-Book Kevin T. Patton,2018-01-24 Using an approach that is geared toward developing solid logical habits in dissection and identification the Laboratory Manual for Anatomy and coloring exercises offer a kinesthetic experience useful in retention of content User friendly spiral binding allows for hands free viewing in the lab setting Step by step dissection instructions with accompanying illustrations and photos cover anatomical models and fresh or preserved specimens and provide needed guidance during dissection labs The dissection of tissues organs and entire organisms clarifies anatomical and functional relationships 250 illustrations including common histology slides and depictions of proper procedures accentuate the lab manual s usefulness by providing clear visuals and guidance Easy to evaluate tear out Lab Reports contain checklists drawing exercises and questions that help you demonstrate your understanding of the labs you have participated in They also allow instructors to efficiently check student progress or assign grades Learning objectives presented at the beginning of each exercise offer a straightforward framework for learning Content and concept review questions throughout the manual provide tools for you to reinforce and apply knowledge of anatomy and function Complete lists of materials for each exercise give you and your instructor a thorough checklist for planning and setting up laboratory activities allowing for easy and efficient preparation Modern anatomical imaging techniques such as computed tomography CT magnetic resonance imaging MRI and ultrasonography are introduced where appropriate to give future health professionals a taste for and awareness of how new technologies are changing and shaping health care Boxed hints throughout provide you with special tips on handling specimens using equipment and managing lab activities Evolve site includes activities and features for students as well as resources for instructors      **Laboratory Manual in Biochemistry' 2006 Ed. ,      Catalogue** Kansas State Agricultural College,Kansas State College of Agriculture and Applied Science,Kansas State University,1925      *Catalog of Course of Instruction at the United States Naval Academy* United States Naval Academy,1953      **Mechanics of Materials** Kassim Mohamad Tarhini,Gerald R. Frederick,1987      **University of Colorado Bulletin** ,1954

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