

METALLURGY LAB 2021

Lab Manual

List of Experiments

1.	Specimen preparation technique	First cycle
2.	Phase diagram	
3.	Heat treatment of steels	Second cycle
4.	Hardenability test	
5.	Specimen identification	
6.	Sand strength & Permeability test	
7.	Tensile, Fatigue & Impact Test.	
8.	Project assignment for each group – a group should consist of 5 members.	

The title of the project is 'material selection'. This will help you understand the course overall. The project is to select any mechanical equipment (preferably) or any other equipment/system/device of your choice and is expected to do the following activities

- Identify the crucial parts of the selected equipment
- Identify the parts main functions
- Identify the required properties of the parts
- Select the suitable material for the identified part in the equipment scientifically, i.e. Justify the identified material is satisfying the functional requirements.

Finally, submit your project as a group in a poster format, which should be laminated A3 paper size.

Note 1: Marking scheme for the project include poster submission (clarity/aesthetic presentation, technical content, project presentation and viva voce)

Note 2: Marking scheme for lab exercise include in-lab observations, Q&As and lab report.

Note 3: The first cycle of lab exercise include 1 & 2. The second cycle comprises from 3 to 7. You can formally start your project as soon as you complete the lab part.

Lab Manual Engineering Materials And Metallurgy

Wilfred Welday Scott



Lab Manual Engineering Materials And Metallurgy:

A Laboratory Manual of Organic Chemistry for Beginners Arnold Frederick Holleman, 1913 **A Laboratory manual of physiological and pathological chemistry** Ernst Salkowski, 1904 *Soil Bacteriology Laboratory Manual* Paul Steere Burgess, 1914 A Laboratory Manual of Organic Chemistry for Beginners Arnold Frederik Holleman, 1904 **A Laboratory Manual of Inorganic Chemistry** John Bernard Ekeley, 1912 Cement Laboratory Manual Leslie Abram Waterbury, 1908 **Processes and Design for Manufacturing, Third Edition** Sherif D. El Wakil, 2019-03-26 Processes and Design for Manufacturing Third Edition examines manufacturing processes from the viewpoint of the product designer investigating the selection of manufacturing methods in the early phases of design and how this affects the constructional features of a product The stages from design process to product development are examined integrating an evaluation of cost factors The text emphasizes both a general design orientation and a systems approach and covers topics such as additive manufacturing concurrent engineering polymeric and composite materials cost estimation design for assembly and environmental factors Appendices with materials engineering data are also included *Laboratory Manual for the Use of Students in Testing Materials of Construction* Leslie Abram Waterbury, 1912 **Inorganic Quantitative Chemical Analysis** Wilfred Welday Scott, 1926 **The Journal of the Iron and Steel Institute** Iron and Steel Institute, 1912 Includes the institute s Proceedings *Reports and Documents* United States. Congress, 1955 **Metallurgical & Chemical Engineering** Eugene Franz Roeber, Howard Coon Parmelee, 1918 Report of the Proceedings , 1911

Electric Ignition for Combustion Motors Forrest Robert Jones, 1912 The Orientation of Buildings Or Planning for Sunlight William Atkinson, 1912 **Methods in Chemical Analysis** , 1912 This antiquarian volume contains a complete manual of the art of angling for roach with comments on methodology equipment tactics and other information useful to the roach fisherman Written in simple plain language and including much in the way of practical instructions and useful tips and hints this text will prove invaluable to the roach fisherman and makes for a great addition to collections of angling literature The chapters of this book include The Roach Descriptive Statistical Roach Waters The Roach Fisherman Baits and Ground Baits Major Tactics and Major Considerations Methods and Styles Odds and Ends In Lighter Vein and Hempseed Fishing for Roach We are republishing this antiquarian volume now complete with a specially commissioned new introduction on the history of fishing Interior Ballistics James Monroe Ingalls, 1912 **Higher English** Chambers (Publishers), 1911 *A Text-book on Roofs and Bridges* Mansfield Merriman, Henry Sylvester Jacoby, 1912 Foundry Practice Reginald Heber Palmer, 1911

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