

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.

Metallurgy Lab Manual

Joseph B. Conway



Metallurgy Lab Manual:

Ferrous Metallurgy Laboratory Manual Joseph S. Umowski, 1960 **Physical Metallurgy** Norman Emme Woldman, 1930 Metallurgy Fundamentals J C Warner, R Dean Odell, 2023-12-14 Organized to follow the textbook on a chapter by chapter basis providing questions to help the student review the material presented in the chapter This supplement is a consumable resource designed with perforated pages so that a given chapter can be removed and turned in for grading or checking A Physical Metallurgy Laboratory Manual Edwin J. Freeman, 1942 **Physical Metallurgy. Laboratory Manual**, 1930 Metallurgy and Materials Science Dell K. Allen, Kay S. Mortensen, 1973 **Laboratory Manual for a Service Course in Metallurgy** William F. Boore, 1950 **Outlines of Elementary Metallurgy and Qualitative Analysis** Vernon James Hall, 1903 Laboratory Manual Physical Metallurgy Muhadir Saeman, Mohamad Khir Johari Jamaludin, Muhamad Faiz Jofri, 2013 **Laboratory Manual in Physical Metallurgy** Joseph B. Conway, 1950

Laboratory Manual in Physical Metallurgy (Manuscript) A. Borowick, *Course Specifications and Laboratory Manual for Metallurgy and Assaying* Royal College of Science (Great Britain), 18?? Extractive Metallurgy Laboratory Exercises H. Alan Fine, 1983 **Materials Science and Engineering Lab Manual** Sherif D. El Wakil, 1994 El Wakil has over 20 years of experience teaching basic materials science courses and has applied this extensive practical experience to produce several classic materials science laboratory exercises plus laboratory exercises for new non ferrous materials including ceramics composites and polymers In addition to the labs themselves El Wakil includes material on lab safety and reporting Although El Wakil is designed to support Askelands THE SCIENCE AND ENGINEERING OF MATERIALS Third Edition it may be used with any standard materials science text **Laboratory Manual in Metallography** John F. Eckel, Robert John Raudebaugh, 1946 Outlines of Elementary Metallurgy and Qualitative Analysis Vernon James Hall, 2015-09-15 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant *South Dakota Legislative Manual* South Dakota. Legislature, 1911 **A Manual of Metallurgy, Or Practical Treatise on the Chemistry of the Metals** John Arthur Phillips, 1852 **A Manual of Metallurgy; Or, A Practical Treatise on the**

Chemistry of Metals John Arthur Phillips, 1859 **Practical Metallurgy and Materials of Industry** John Neely, Thomas J. Bertone, 2000 For undergraduate courses in Materials Science and Metallurgy This practical introduction to engineering materials metallurgy maintains a low mathematical level designed for two year technical programs and four year engineering technology The easy to read highly accessible Fifth Edition now includes many of the latest industry processes that change the physical and mechanical properties of materials and is highly recommended as a materials processing reference handbook in support of Design Process Electrical and Chemical technicians and engineers Math theory is minimized and the appreciation of theory is emphasized

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