

# 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.

# Techmax Metallurgy Lab Manual

**P. G. Ormandy**



## **Techmax Metallurgy Lab Manual:**

Ferrous Metallurgy Laboratory Manual Joseph S. Umowski, 1960      A Physical Metallurgy Laboratory Manual Edwin J. Freeman, 1942      Metallurgy and Materials Science Dell K. Allen, Kay S. Mortensen, 1973      Physical Metallurgy. Laboratory Manual, 1930      **Physical Metallurgy** Norman Emme Woldman, 1930      *Laboratory Manual in Physical Metallurgy* Joseph B. Conway, 1950      Laboratory Manual for a Service Course in Metallurgy William F. Boore, 1950  
*Course Specifications and Laboratory Manual for Metallurgy and Assaying* Royal College of Science (Great Britain), 18??  
Outlines of Elementary Metallurgy and Qualitative Analysis Vernon James Hall, 1903      **Laboratory Manual in Metallography** John F. Eckel, Robert John Raudebaugh, 1946      Experiments and Problems in Metallurgy for Engineers Aravamudhan Raman, 1978      Laboratory Guide for Metallurgy E. B. Starkey, E. G. Vanden Bosche, 19??      **Outlines of Elementary Metallurgy and Qualitative Analysis** Vernon James Hall, 2025-05-22

Outlines Of Elementary Metallurgy And Qualitative Analysis is a meticulously crafted laboratory manual designed for students in the Department of Chemistry at Northwestern University Dental School Authored by Vernon James Hall this manual serves as an invaluable resource for students embarking on the study of metallurgy and qualitative analysis The book provides a structured approach to conducting experiments and understanding fundamental concepts With clear instructions and comprehensive outlines students can confidently navigate the complexities of chemical processes and metallurgical techniques This manual equips students with the knowledge and practical skills necessary for success in their studies and future careers Its enduring relevance makes it a worthwhile addition to any scientific collection 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      *An Introduction to Metallurgical Laboratory Techniques* P. G. Ormandy, 2016-11-21 Pergamon Series of Monographs in Laboratory Techniques Volume 3 An Introduction to Metallurgical Laboratory Techniques covers improved methods and techniques in metallurgy relating to the practical aspects of laboratory work by experimentation practice and experience The book discusses metallography high temperature heat treatment and testing of materials The text also describes vacuum techniques powder metallurgy and joining of metals Physical metallurgists and

students taking related courses will find the book invaluable      *A Manual of Metallurgy, Or Practical Treatise on the Chemistry of the Metals* John Arthur Phillips,1852      Laboratory Experiments in Metallurgy Albert Sauveur,Herbert Melville Boylston,1908      *A Manual of Metallurgy; Or, A Practical Treatise on the Chemistry of Metals* John Arthur Phillips,1859  
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