

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

Clifford Lane



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Table of Contents Metallurgy Lab Manual

1. Understanding the eBook Metallurgy Lab Manual
 - The Rise of Digital Reading Metallurgy Lab Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Metallurgy Lab Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Metallurgy Lab Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Metallurgy Lab Manual
 - Personalized Recommendations
 - Metallurgy Lab Manual User Reviews and Ratings

- Metallurgy Lab Manual and Bestseller Lists
- 5. Accessing Metallurgy Lab Manual Free and Paid eBooks
 - Metallurgy Lab Manual Public Domain eBooks
 - Metallurgy Lab Manual eBook Subscription Services
 - Metallurgy Lab Manual Budget-Friendly Options
- 6. Navigating Metallurgy Lab Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Metallurgy Lab Manual Compatibility with Devices
 - Metallurgy Lab Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Metallurgy Lab Manual
 - Highlighting and Note-Taking Metallurgy Lab Manual
 - Interactive Elements Metallurgy Lab Manual
- 8. Staying Engaged with Metallurgy Lab Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Metallurgy Lab Manual
- 9. Balancing eBooks and Physical Books Metallurgy Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Metallurgy Lab Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Metallurgy Lab Manual
 - Setting Reading Goals Metallurgy Lab Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Metallurgy Lab Manual
 - Fact-Checking eBook Content of Metallurgy Lab Manual
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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