

Material Science

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Chapter 1. Introduction

1.1 Historical Perspective and Materials Science

1.1.1 Historical Perspective

Materials are so important in the development of human civilization that the historians have identified early periods of civilization by the name of most significantly used material, e.g.: Stone Age, Bronze Age. This is just an observation made to showcase the importance of materials and their impact on human civilization. It is obvious that materials have affected and controlling a broad range of human activities through thousands of decades.

From the historical point of view, it can be said that human civilization started with *Stone Age* where people used only natural materials, like stone, clay, skin, and wood for the purposes like to make weapons, instruments, shelter, etc. Thus the sites of deposits for better quality stones became early colonies of human civilization. However, the increasing need for better quality tools brought forth exploration that led to *Bronze Age*, followed by *Iron Age*. When people found copper and how to make it harder by alloying, the *Bronze Age* started about 3000 BC. The use of iron and steel, a stronger material that gave advantage in wars started at about 1200 BC. Iron was abundant and thus availability is not limited to the affluent. This commonness of the material affected every person in many aspects, gaining the name *democratic material*. The next big step in human civilization was the discovery of a cheap process to make steel around 1850 AD, which enabled the railroads and the building of the modern infrastructure of the industrial world. One of the most significant features of the *democratic material* is that number of users just exploded. Thus there has been a need for human and material resources for centuries, which still going strong. It's being said and agreed that we are presently in *Space Age* marked by many technological developments towards development materials resulting in

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Table of Contents Material Science Nptel

1. Understanding the eBook Material Science Nptel
 - The Rise of Digital Reading Material Science Nptel
 - Advantages of eBooks Over Traditional Books
2. Identifying Material Science Nptel
 - 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 Material Science Nptel
 - User-Friendly Interface
4. Exploring eBook Recommendations from Material Science Nptel
 - Personalized Recommendations
 - Material Science Nptel User Reviews and Ratings

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