

Material Science

Prof. Satish V. Kailas

Associate Professor
Dept. of Mechanical Engineering,
Indian Institute of Science,
Bangalore – 560012
India

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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Fundamentals of Materials Engineering- A Basic Guide Shashanka Rajendrachari, Orhan Uzun, 2021-02-22 Fundamentals of Materials Engineering A Basic Guide is a helpful textbook for readers learning the basics of materials science This book covers important topics and fundamental concepts of materials engineering including crystal structure imperfections mechanical properties of materials polymers powder metallurgy corrosion and composites The authors have explained the concepts in an effective way and by using simple language for the benefit of a broad range of readers This book is also beneficial to the students in engineering courses at B Sc M Sc and M Tech levels *Materials Engineering* Dheerendra Kumar Dwivedi, 2025-06-01 *New Age Education Models* Dr. P. R. Muthuswamy, 2022-06-13 Rethinking Redesigning and Restructuring of higher education is the need of the hour This book intends to enlighten its readers about the 21st century education models for 21st century learners Such models would include skill oriented and technology based teaching and learning This book suggests various routes for student entrepreneurs to access resources throughout their college life to ultimately achieve their goals It also talks about the effectiveness of e learning tools in education emerging teaching techniques and methodologies by understanding the education models of different countries and benchmarking the best practices The book also highlights the importance and advantage of open source learning mobile learning and the role of creativity and its relevance with technology Metallic Glass-Based Nanocomposites Sumit Sharma, 2019-09-23 Metallic Glass Based Nanocomposites Molecular Dynamics Study of Properties provides readers with an overview of the most commonly used tools for MD simulation of metallic glass composites and provides all the basic steps necessary for simulating any material on Materials Studio After reading this book readers will be able to model their own problems on this tool for predicting the properties of metallic glass composites This book provides an introduction to metallic glasses with definitions and classifications provides detailed explanations of various types of composites reinforcements and matrices and explores the basic mechanisms of reinforcement MG interaction during mechanical loading It explains various models for calculating the thermal conductivity of metallic glass composites and provides examples of molecular dynamics simulations Aimed at students and researchers this book caters to the needs of those working in the field of molecular dynamics MD simulation of metallic glass composites *Manufacturing Processes* Dheerendra Kumar Dwivedi, 2025-06-01 **Theoretical and Practical Approaches to Innovation in Higher Education** Makewa, Lazarus Ndiku, 2019-12-27 Education badly needs effective innovations that can help produce high quality learning outcomes across the system The primary focus of educational innovations should be on teaching and learning theory and practice as well as on the learner parent community society and culture Technology applications need a solid theoretical foundation based on purposeful systemic research and a sound pedagogy Theoretical and Practical Approaches to Innovation in Higher Education is an essential scholarly publication that outlines the classification of innovations discusses the hurdles to innovation and offers ways to increase the scale and

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Parliamentary Debates India. Parliament. Rajya Sabha,2014-08

Open Access to Knowledge and Information Anup Kumar Das,2008

Annual Report India. Department of Elementary Education & Literacy,2005

Recommendations of the National Knowledge Commission India. National Knowledge Commission,2009 Detailed and informative this original report outlines a list of recommendations presented by the National Knowledge Commission NKC of the Government of India The advice focuses on five key areas of knowledge including access concepts creation applications and services and addresses topics such as education languages translation libraries health intellectual property rights public funded research entrepreneurship agriculture and e governance Presenting the latest data on economic development this account proves to be valuable for policymakers developmental economists social scientists researchers students and non governmental organizations

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application questions provide the students with practice in solving problems using the concepts that they have derived from their own valid conclusions

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Understanding Materials Science Rolf E. Hummel,2006-05-11 This introduction for engineers examines not only the physical properties of materials but also their history uses development and some of the implications of resource depletion and materials substitutions

The Science and Engineering of Materials Donald R. Askeland,1985 This text provides an understanding of the relationship between structure processing and properties of materials By selecting the appropriate topics from this wealth of material instructors can emphasize metals provide a general overview of materials concentrate on mechanical behavior or focus on physical properties Since the book has more material than is needed for a one semester course students will also have a useful reference for subsequent courses in manufacturing materials design or materials selection

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