

# 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

# Material Science Nptel

**Jiyuan Zhang**



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In a world consumed by screens and the ceaseless chatter of instantaneous conversation, the melodic splendor and mental symphony developed by the written term frequently fade in to the back ground, eclipsed by the constant sound and disturbances that permeate our lives. However, located within the pages of **Material Science Nptel** an enchanting fictional prize overflowing with natural thoughts, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, that captivating masterpiece conducts visitors on an emotional journey, well unraveling the hidden tunes and profound affect resonating within each cautiously constructed phrase. Within the depths of this poignant analysis, we will investigate the book is key harmonies, analyze its enthralling writing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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