



Springer

# Understanding Materials Science History Properties

## Applications Second Edition

**Peter Koidl, P. Oelhafen**

## **Understanding Materials Science History Properties Applications Second Edition:**

*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    *Understanding Materials Science* Rolf E. Hummel, 1998    *Understanding Materials Science* Rolf E. Hummel, 2013-06-29 It is a challenging endeavor to trace the properties and the development of materials in the light of the history of civilization. Materials such as metals, alloys, ceramics, glass, fibers, and so on have been used by mankind for millennia. Actually, materials have shaped entire civilizations. They have been considered of such importance that historians and other scholars have named certain ancient periods after the material which was predominantly utilized at that respective time. Examples are the Stone Age, the Bronze Age, and the Iron Age. As time progressed, the materials became increasingly sophisticated. Their properties were successively altered by man to suit ever changing needs. We cannot but regard with utmost respect the accomplishments of men and women who lived millennia ago and who were capable of smelting, shaping, and improving the properties of materials. Typical courses on world history expose students mainly to the description of major wars, the time span, important rulers who have reigned, and to the formation, expansion, and downfall of world empires. Very little is generally said about the people who lived and toiled in ancient times and about the evolution of civilizations. This book traces the utilization, properties, and production techniques of materials from the Stone Age via the Bronze Age and the Iron Age up to modern times.    *Understanding Materials Science* Rolf E. Hummel, 2004-08-03 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.    **Understanding Materials Science** Alexander Borydyuk, 2013-04 This book helps readers understand materials science.    **Understanding Materials Science, 2E** Hummel, 2005-01-01    *Physical Properties of Materials, Second Edition* Mary Anne White, 2011-06-28

Designed for advanced undergraduate students, *Physical Properties of Materials, Second Edition* establishes the principles that control the optical, thermal, electronic, magnetic, and mechanical properties of materials. Using an atomic and molecular approach, this introduction to materials science offers students a wide ranging survey of the field and a basis to understand future materials. The author incorporates comments on applications of materials science, extensive references to the contemporary and classic literature, and problems at the end of each chapter. In addition, unique tutorials allow students to apply the principles to understand applications such as photocopying, magnetic devices, fiber optics, and more. This fully revised and updated second edition presents a discussion of materials sustainability, a description of crystalline structures, and a discussion of current and recent developments including graphene, carbon nanotubes, nanocomposites, magnetocaloric effect, and spintronics. Along with a new capstone tutorial on the materials science of cymbals, this edition contains more than 60 new end-of-chapter problems, bringing the total to 300 problems. Web Resource: The book's companion website: [www.physicalpropertiesofmaterials.com](http://www.physicalpropertiesofmaterials.com)

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