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While this is a fundamental materials science and engineering text, it simply is outdated. Many of its sources originating from the 50s and 60s, modern research is either more clear or more robust. Modern physics texts like Griffiths read conversationally and in a concise manner. This text is the opposite, and truly seems dated.

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[PDF] Principles of Materials Science and Engineering ...

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Principles of Engineering Practice

We focus on conventional materials classes: metals ceramics, and polymers, and discuss their various properties, such as mechanical, electronic, thermal, optical, magnetic, and electrochemical. Broader themes that arise are how materials' performance influences technological development, the economy, the environment, and society.

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Materials Science and Engineering (MSE) combines engineering, physics and chemistry principles to solve real-world problems associated with nanotechnology, biotechnology, information technology, energy, manufacturing and other major engineering disciplines.

What is Materials Science and Engineering?

The interdisciplinary field of materials science, also commonly termed materials science and engineering, is the design and discovery of new materials, particularly solids. The intellectual origins of materials science stem from the Enlightenment , when researchers began to use analytical thinking from chemistry , physics , and engineering to understand ancient, phenomenological observations in metallurgy and mineralogy .

Materials science

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Introduction to Materials Science & Engineering . Materials: Introduction and Applications. Witold Brostow, Haley E. Hagg Lobland. Engineering, Medicine and Science at the Nano-Scale. Stephen J. Fonash, Marcel Van de Voorde. ... Molecular Electronics: From Principles to Practice.

Materials Science Engineering - Wiley

Principles of materials science and engineering 3rd ed. This edition published in 1996 by McGraw-Hill in New York..

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Design experiments and analyze data from the literature in the context of the class design project. Apply core concepts in materials science to solve engineering problems related to the selection biomaterials, especially in devices where the material-tissue or material-solution interface dominates performance.

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