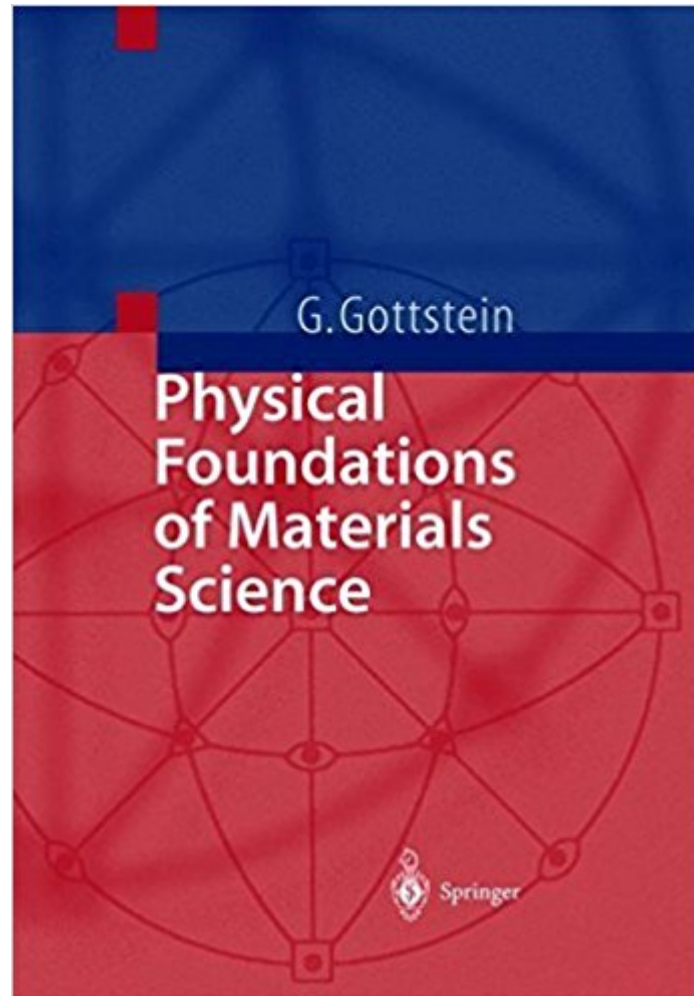




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Physical Foundations Of Materials Science



Synopsis

In this vivid and comprehensible introduction to materials science, the author expands the modern concepts of metal physics to formulate basic theory applicable to other engineering materials, such as ceramics and polymers. Written for engineering students and working engineers with little previous knowledge of solid-state physics, this textbook enables the reader to study more specialized and fundamental literature of materials science. Dozens of illustrative photographs, many of them transmission electron microscopy images, plus line drawings, aid developing a firm appreciation of this complex topic. Hard-to-grasp terms such as "textures" are lucidly explained - not only the phenomenon itself, but also its consequences for the material properties. This excellent book makes materials science more transparent.

Book Information

File Size: 13680 KB

Print Length: 502 pages

Publisher: Springer; 2004 edition (March 9, 2013)

Publication Date: March 9, 2013

Sold by:Â Digital Services LLC

Language: English

ASIN: B000TBF9OW

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #752,059 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #12

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