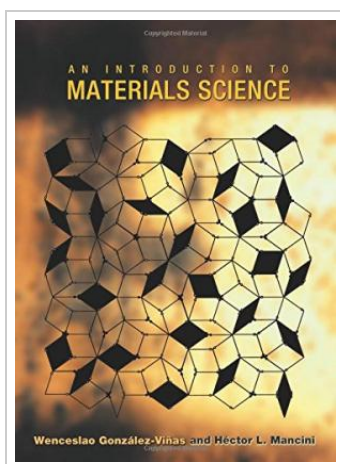




An Introduction to Materials Science (Hardback)

By Wenceslao Gonzalez-Vinas, Hector L. Mancini

Princeton University Press, United States, 2004. Hardback. Condition: New. Language: English . Brand New Book. Materials science has undergone a revolutionary transformation in the past two decades. It is an interdisciplinary field that has grown out of chemistry, physics, biology, and engineering departments. In this book, Gonzalez-Vinas and Mancini provide an introduction to the field, one that emphasizes a qualitative understanding of the subject, rather than an intensely mathematical one. The book covers the topics usually treated in a first course on materials science, such as crystalline solids and defects. It describes the electrical, mechanical, and thermal properties of matter; the unique properties of dielectric and magnetic materials; the phenomenon of superconductivity; polymers; and optical and amorphous materials. More modern subjects, such as fullerenes, liquid crystals, and surface phenomena are also covered, and problems are included at the end of each chapter. An Introduction to Materials Science is addressed to both undergraduate students with basic skills in chemistry and physics, and those who simply want to know more about the topics on which the book focuses.



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