



The Materials Physics Companion

Anthony C. Fischer-Cripps

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Providing a working understanding of materials physics without the typical lengthy and exhaustive discussions found in other books, **The Materials Physics Companion** offers an accessible introduction to the most important concepts of materials physics. Following the style of the author's other companions, this book maintains a reader-friendly format and takes a straightforward approach when presenting difficult topics. It illustrates key concepts and principles of materials science and solid state physics in clear, one-page, figure-rich descriptions. Designed as a supplementary text and revision aid, the book contains many worked examples and review questions throughout.

Divided into three parts, the text begins with an introduction to materials physics. The author reviews the areas of crystallography, quantum mechanics, solid state physics, and x-ray diffraction. The book then focuses on dielectric properties of materials, covering polarizability, ferroelectric and piezoelectric materials, and dielectric breakdown. The final section explores magnetic properties of materials, including ferromagnetism and superconductivity.

Taking an accessible approach to materials physics, this text is sure to provide clear answers to difficult questions faced by undergraduate students. The book will also serve as a handy reminder for professional scientists who need a quick refresher in a particular area of materials physics.

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