



# Physical Properties of Materials, Second Edition

By Mary Anne White

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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 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)) provides updates to the further reading sections, links to relevant movies and podcasts for each chapter, video demonstrations, and additional problems. It also offers sources of demonstration materials for lectures and PowerPoint slides of figures from the book.

More information can be found on a recent press release describing the book and the website.

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