



# Understanding Solids: The Science of Materials

*Richard J. D. Tilley*

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## **Understanding Solids: The Science of Materials** Richard J. D. Tilley

The second edition of a modern introduction to the chemistry and physics of solids. This textbook takes a unique integrated approach designed to appeal to both science and engineering students.

### *Review of 1<sup>st</sup> edition*

“an extremely wide-ranging, useful book that is accessible to anyone with a firm grasp of high school science...this is an outstanding and affordable resource for the lifelong learner or current student.” Choice, 2005

The book provides an introduction to the chemistry and physics of solids that acts as a foundation to courses in materials science, engineering, chemistry, and physics. It is equally accessible to both engineers and scientists, through its more scientific approach, whilst still covering the material essential to engineers.

This edition contains new sections on the use of computing methods to solve materials problems and has been thoroughly updated to include the many developments and advances made in the past 10 years, e.g. batteries, solar cells, lighting technology, lasers, graphene and graphene electronics, carbon nanotubes, and the Fukushima nuclear disaster.

The book is carefully structured into self-contained bite-sized chapters to enhance student understanding and questions have been designed to reinforce the concepts presented.

The supplementary website includes Powerpoint slides and a host of additional problems and solutions.

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**From reader reviews:**

**Luisa Johnson:**

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**Sharon Wilson:**

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**Ronda Tollison:**

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