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16) Composites 16.1 Introduction The idea is that by combining two or more distinct materials one can engineer a new material with the desired combination of properties (e.g., light, strong, corrosion resistant). The idea that a better combination of properties can be achieved is called the principle of combined action.

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Chander and Rajesh K. Prasad. Publishers: Jain Brothers.

Year of Publication : Reprinted 12th Edition , 2017. Language

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four chapters are devoted to a detailed description of electrical conduction, superconductivity, semiconductors, and magnetic and dielectric properties. The final chapter on Nanomaterials is an important addition to the sixth edition. It describes the state-of-art developments in this new field. This eminently readable and student-friendly text not only provides a masterly analysis of all the relevant topics, but also makes them comprehensible to the students through the skillful use of well-drawn diagrams, illustrative tables, worked-out examples, and in many other ways. The book is primarily intended for undergraduate students of all branches of engineering (B.E./B.Tech.) and postgraduate students of Physics, Chemistry and Materials Science.

KEY FEATURES

- All relevant units and constants listed at the beginning of each chapter
- A note on SI units and a full table of conversion factors at the beginning
- A new chapter on Nanomaterials describing the state-of-art information
- Examples with solutions and problems with answers
- About 350 multiple choice questions with answers

This text provides students with a solid understanding of the relationship between the structure, processing, and properties of materials. Authors Donald Askeland and Pradeep Fulay teach the fundamental concepts of atomic structure and materials behaviors and clearly link them to the materials issues that students will have to deal with when they enter the industry or graduate school (e.g. design of structures, selection of materials, or materials failures). While presenting fundamental concepts and linking them to practical applications, the authors emphasize the necessary basics without overwhelming the students with too much of the underlying chemistry or physics. The book covers fundamentals in an integrated approach that emphasizes applications of new technologies that engineered materials

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