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Composite materials consist of two main materials.

1.Reinsforcement(Strong load carrying material) EX: aramide,

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~~Solutions~~ carbon, fiberglass 2. Matrix (imbedded weaker material) EX:
polypropylene, polyvinyl chloride etc. Composite Materials offers
1. High Strength 2. Light Weight 3. Design Flexibility □ Transfer Load
to Reinforcement □ Temperature Resistance □ Chemical Resistance
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An Introduction to Materials Engineering and Science for Chemical and Materials Engineers provides a solid background in materials engineering and science for chemical and materials engineering students. This book: Organizes topics on two levels; by engineering subject area and by materials class. Incorporates instructional objectives, active-learning principles, design-oriented problems, and web-based information and visualization to provide a unique educational experience for the student. Provides a foundation for

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Solutions understanding the structure and properties of materials such as ceramics/glass, polymers, composites, bio-materials, as well as metals and alloys. Takes an integrated approach to the subject, rather than a "metals first" approach.

Updated to reflect the changes in the field since publication of the first edition, Introduction to Materials Science and Engineering, Second Edition offers an interdisciplinary view, emphasizing the importance of materials to engineering applications and builds the basis needed to select, modify, and create materials to meet specific criteria.

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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, González-Viñas 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

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Solutions 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.

¿ For students taking the Materials Science course . This book is also suitable for professionals seeking a guided inquiry approach to materials science. ¿ This unique book is designed to serve as an active learning tool that uses carefully selected information and guided inquiry questions. Guided inquiry helps readers reach true understanding of concepts as they develop greater ownership over the material presented. First, background information or data is presented. Then, concept invention questions lead the students to

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