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Callister'S Materials Science And Engineering: Indian Adaptation (W/Cd) *John Wiley & Sons*

This accessible book provides readers with clear and concise discussions of key concepts while also incorporating familiar terminology. The author treats the important properties of the three primary types of materials (metals, ceramics, and polymers) and composites, as well as the relationships that exist between the structural elements of materials and their properties. Throughout, the emphasis is placed on mechanical behavior and failure, including techniques that are employed to improve performance.· Introduction· Atomic Structure and Interatomic Bonding· The Structure of Crystalline Solids· Imperfections in Solids· Diffusion· Mechanical Properties of Metals· Dislocations and Strengthening Mechanisms· Failure· Phase Diagrams· Phase Transformations in Metals· Development of Microstructure and Alteration of Mechanical Properties· Applications and Processing of Metal Alloys· Structures and Properties of Ceramics· Applications and Processing of Ceramics· Polymer Structures· Characteristics, Applications, and Processing of Polymers· Composites· Corrosion and Degradation of Materials· Electrical Properties· Thermal Properties· Magnetic Properties· Optical Properties· Materials Selection and Design Considerations· Economic, Environmental, and Societal Issues in Materials Science and Engineering

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An Introduction *Wiley*

Bill Callister continues his dedication to student understanding by writing in a clear and concise manner, using terminology that is familiar and not beyond student comprehension. Topics are organized and explained in an approachable manner, so that even instructors who do not have a strong materials background (i.e., those from mechanical, civil, chemical, or electrical engineering, or chemistry departments) can teach from this, already successful, text.

Outlines and Highlights for Materials Science and Engineering by William D Callister Jr , Isbn

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Studyguide for Materials Science and Engineering

An Introduction by Callister, William D., ISBN 9781118324578 *Cram101*

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