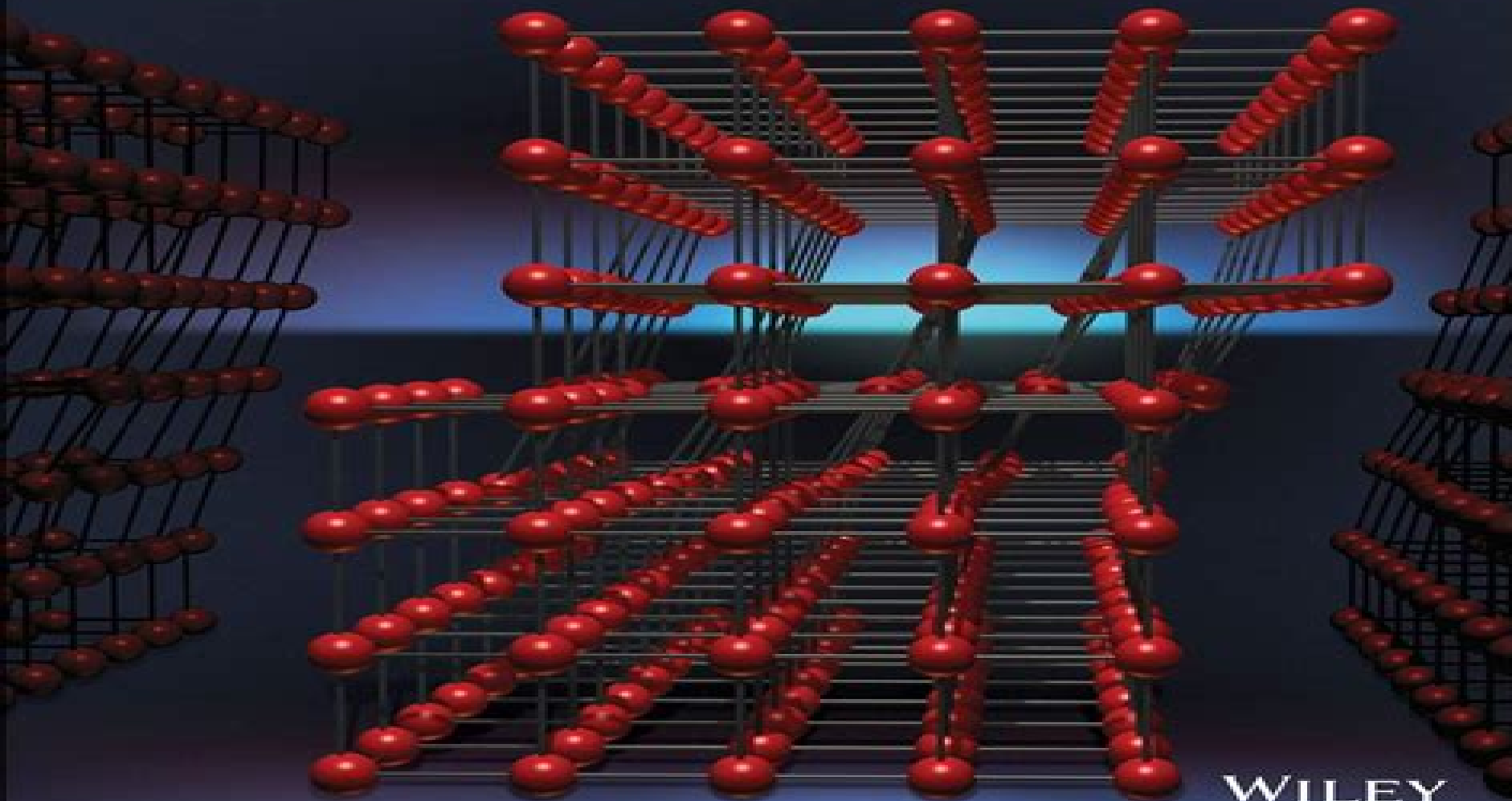


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*Fundamentals of Materials Science and Engineering* William D. Callister, Jr., David G. Rethwisch, 2012 This text treats the important properties of the three primary types of materials metals ceramics and polymers as well as composites and the relationships that exist between the structural elements of these materials and their properties Emphasis is placed on mechanical behavior and failure including techniques that are employed to improve the mechanical and failure characteristics in terms of alteration of structural elements Furthermore individual chapters discuss each of corrosion electrical thermal magnetic and optical properties New and cutting edge materials are also discussed Even if an instructor does not have a strong materials background i e is from mechanical civil chemical or electrical engineering or chemistry departments he or she can easily teach from this text The material is not at a level beyond which the students can comprehend an instructor would not have to supplement in order to bring the students up to the level of the text Also the author has attempted to write in a concise clear and organized manner using terminology that is familiar to the students Extensive student and instructor resource supplements are also provided Publisher's description

**(WCS) Materials Science 6th Edition w/Study Tips Set** William D. Callister, Jr., 2004-08-05

*Chemistry for Engineers* Teh Fu Yen, 2008 Science is a broad interdisciplinary subject comprising physics chemistry and biology Physics deals with atomic matter and energy while biology or health sciences deals with much larger molecular systems Chemistry is perhaps the most essential science as it serves as a bridge between these two fields With this in mind Chemistry for Engineers is a one of a kind well written book that focuses on chemistry as applicable to engineers It provides a comprehensive review of the basic branches and principles of chemistry and also discusses the applications of chemistry in fields such as cement chemistry asphalt chemistry and polymer chemistry among others Readers interested in chemical engineering will find this volume invaluable as a reference book

**Materials Science and Engineering** William D. Callister, 2006-01

*Engineering Materials Science* Milton Ohring, 1995 This introductory text is intended to provide undergraduate engineering students with the background needed to understand the science of structure property relationships as well as address the engineering concerns of materials selection in design A computer diskette is included

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**Fundamentals of Materials Science and Engineering** William D. Callister, Jr., David G.

Rethwisch,2021-02-01 This revised Sixth Edition presents the basic fundamentals on a level appropriate for college students who have completed their freshmen calculus chemistry and physics courses All subject matter is presented in a logical order from the simple to the more complex Each chapter builds on the content of previous ones In order to expedite the learning process the book provides Concept Check questions to test conceptual understanding End of chapter questions and problems to develop understanding of concepts and problem solving skills End of book Answers to Selected Problems to check accuracy of work End of chapter summary tables containing key equations and equation symbols A glossary for easy reference

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Fundamentals of Materials Science and Engineering William D. Callister, Jr.,2011-12-12

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