



## Physical Metallurgy Principles - SI Version

By Reza Abbaschian, Robert E. Reed-Hill

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This comprehensive, student friendly text is intended for use in an introductory course in physical metallurgy and is designed for all engineering students at the junior or senior level. The approach is largely theoretical but all aspects of physical metallurgy and behavior of metals and alloys are covered. The treatment used in this textbook is in harmony with a more fundamental approach to engineering education. An extensive revision has been done to insure that the content remains the standard for metallurgy engineering courses worldwide.

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### **Review**

Chapter 1: The Structure of Metals Chapter 2: Characterization Techniques Chapter 3: Crystal Binding Chapter 4: Introduction to Dislocations Chapter 5: Dislocations and Plastic Deformation Chapter 6: Elements of Grain Boundaries Chapter 7: Vacancies Chapter 8: Annealing Chapter 9: Solid Solutions Chapter 10: Phases Chapter 11: Binary Phase Diagrams Chapter 12: Diffusion in Substitutional Solid Solutions Chapter 13: Interstitial Diffusion Chapter 14: Solidification of Metals Chapter 15: Nucleation and Growth Kinetics Chapter 16: Precipitation Hardening Chapter 17: Deformation Twinning and Martensite Reactions Chapter 18: The Iron-Carbon Alloy System Chapter 19: The Hardening of Steel Chapter 20: Selected Nonferrous Alloy Systems Chapter 21: Failure of Metals

### **About the Author**

Reza Abbaschian received his Ph.D. in Materials Science and Engineering from the University of California, Berkeley in 1971. Prior to joining UC Riverside in 2005 as Dean of Engineering and Distinguished Professor of Mechanical Engineering, he was Chairman of the Department of Materials Science & Engineering at the University of Florida. He has also held the positions of Chairman and Professor at the Pahlavi University in Shiraz, Iran, Visiting Associate Professor at the University of Illinois and Visiting Scientist at Massachusetts Institute of Technology. Dr. Abbaschian has more than 230 scientific publications, four patents and eight books. He is a Fellow and the President of ASM International, the largest materials society in the world.

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