



# Principles of Metallurgical Thermodynamics (Universities Press-Iim Series in Metallurgy and Materials Science)

By Subir Kumar Bose, Sanat Kumar Roy

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Principles of Metallurgical Thermodynamics deals with the thermodynamics of reactive systems, with emphasis on the reactivity of metals and materials being used by metallurgical and materials scientists all over the world. Though the focus is on equilibrium thermodynamics, it also touches upon some methods to incorporate non-equilibrium effects relevant to material scientists. This knowledge will enable students to solve the challenging problems faced during operation in different materials-processing routes. It will also help in the search for new substances that might revolutionize high as well as low temperature applications because of their super-fluid and super-conducting properties, outer space environmental adaptability, and more attractive electrical, magnetic, and dielectric properties.

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### About the Author

Late Professor **Subir Kumar Bose** and Professor **Sanat Kumar Roy** have each more than four decades of experience in teaching both undergraduate and graduate students in metallurgical and materials engineering in one of the most esteemed education centres in India?India Institute of Technology Kharagpur. They both have several papers in international journals and one book to their credit and have guided numerous PhD scholars in their research.

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