



A TEXTBOOK OF METALLURGICAL KINETICS

AHINDRA GHOSH, SUDIPTO GHOSH

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Mechanical kinetics constitutes one of the basic subjects for Metallurgical Engineering. This well-written book presents the subject of kinetics of metallurgical processes in a compressive fashion.

Organized into 14 chapters, the book begins with an introduction of the broad basic concepts. It then discusses the kinetics of homogeneous and heterogeneous chemical reactions with some real-life examples from the metallurgical field. The book adequately covers the concepts of diffusion, convective mass transfer and mixing in fluids, as well as mass transfer in fluids adjacent to a solid surface. Several important processes in metallurgical and materials engineering involve reactions of porous solids with gases. The book discusses this with the help of two important reactions, namely, reduction of iron ores and gasification of carbon. It also deals with mass transfer among two fields and presents the kinetics of electrochemical reactions and phase transformation in a simple manner.

The book also contains plenty of numerical worked-out examples and problems, some of which involve computer programs. The Appendix gives some important data useful for solving problems in kinetics.

The book is designed for one-semester course for undergraduate students of metallurgical discipline.



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