



# Phase Diagrams in Metallurgy Their Development and Application

*Frederick N Rhines*

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## **Phase Diagrams in Metallurgy Their Development and Application** Frederick N Rhines

This book is derived from a series of lectures presented over a period of more than two decades to undergraduate students in the Department of Metallurgical Engineering at the Carnegie Institute of Technology. It presents the subject in a manner that can be grasped by undergraduate engineering students whose primary interest is in the application of phase diagrams to metallurgical problems. To this end, the treatment of thermodynamic principles has been reduced to a minimum and those types of equilibria which are of special importance to chemists but are rarely encountered in metal systems have been de-emphasized in favor of those of more immediate interest to metallurgists. This book is derived from a series of lectures presented over a period of more than two decades to undergraduate students in the Department of Metallurgical Engineering at the Carnegie Institute of Technology. It presents the subject in a manner that can be grasped by undergraduate engineering students whose primary interest is in the application of phase diagrams to metallurgical problems. To this end, the treatment of thermodynamic principles has been reduced to a minimum and those types of equilibria which are of special importance to chemists but are rarely encountered in metal systems have been de-emphasized in favor of those of more immediate interest to metallurgists.

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