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metallurgical basis of numerical simulation (high)

By CHEN JIAN BIN

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Publisher: metallurgy Pub. Date :2008-03-01. This book is about the numerical simulation of metallurgical materials. The book covers the main methods of mathematical models based on metallurgical thermodynamics and kinetics of transfer of mathematical modeling and numerical simulation of metallurgical three parts. Among them, some of the major metallurgical thermodynamics describes the chemical reaction stoichiometric matrix, reaction free energy and equilibrium constant calculations, the calculation of equilibrium composition of the system; dynamics introduces some of the major gas - solid, gas - liquid and liquid - liquid three major types of reaction kinetics simulation, also introduced coupling reaction kinetic model; metallurgical numerical simulation of transmission introduces some of the major transmission numerical simulation based on heat conduction numerical methods, convection diffusion problems with numerical methods, and the flow field profile. Appendix lists nine metallurgical process for several common numerical method to calculate math problems the program, five questions about thermodynamics and numerical methods for calculating thermal processes and three practical VB applet. This book not only focus on the implementation of the metallurgical process simulation, and difficult to understand...



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