



# **Phase Interaction in the Metal - Oxide Melts - Gas -System: The Modeling of Structure, Properties and Processes (Engineering Materials)**

*Vladislav Boronenkov, Michael Zinigrad, Leopold Leontiev, Edward Pastukhov, Mikhail Shalimov, Sergey Shanchurov*

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This monograph describes mathematical models that enable prediction of phase compositions for various technological processes, as developed on the base of a complex physico-chemical analysis of reaction. It studies thermodynamics and kinetics of specific stages of complex pyrometallurgical processes involving boron, carbon, sulfur, tungsten, phosphorus, and many more, as well as their exposure to all sorts of factors.

First and foremost, this enables to optimize processes and technologies at the stage of design, while traditional empirical means of development of new technologies are basically incapable of providing an optimal solution. Simulation results of metals and alloys production, welding and coating technologies allow obtaining materials with pre-given composition, structure and properties in a cost-saving and conscious manner. Moreover, a so-called "inverse problem", i.e., selecting source materials which would ensure the required results, cannot be solved by any other means.

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