

PHASE DIAGRAMS AND CORROSION AND ELECTROCHEMICAL PROPERTIES OF METAL BINARY ALLOYS. PECULIARITY OF THE CORROSION PROPERTIES OF ALLOYS AND THE THEORY OF CORROSION ELEMENTS

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Specific character of the corrosion properties of alloys caused by the thermodynamic irreversibility of electrochemical reactions, which determine the corrosion rate, was considered. The possibility of characterization of the corrosion behavior of heterophase alloys based on the theory of corrosion elements in view of some simplifications was shown. The certain conditions were established in which phase composition has the crucial role in the corrosion behavior of some binary alloys.