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Thermodynamics of chemical and electrochemical stability of alloys of the Cu-Si system

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Abstract

A phase diagram of Cu-Si-O system state and a potential - pH diagram of Cu-Si-H₂O system at 25 °C, pressure of 1 bar and activities of ions in solution equal to 1 and 10^{-6} mol/₁ are plotted. The corrosionelectrochemical behaviour of alloys in the Cu-Si system in aqueous media has been considered from the viewpoint of thermodynamics.