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Thematic course: The metal reduction thermodynamic simulate of sulfides. Part 1.

Aluminothermy

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Abstract

A thermodynamic estimate of interactions in the system Me_xS–Al, where Me is Cu, Ni, Zn and Fe has been carried out. The isobaric-isothermal potentials of the reduction reaction of sulfides with aluminum have been calculated. According to thermodynamic modeling probable phase composition of the model system is determined and the degree of sulfides conversion is computed in the temperature range 1800-1400 K.