

University Based Research Studies aided by FactSage Simulation Program - II

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ABSTRACT

FactSage has been intensively used in Istanbul Technical University, Metallurgical and Materials Engineering Department since 2002. Besides, the FactSage is the workhorse software used in the graduate course entitled “*Computational Thermochemistry for Metallurgical Processes*” for years.

In the present study, we will give some introductory examples on the FactSage simulations which were constructed for our broad range of teaching and ongoing project studies in the fields of extractive metallurgy and materials science.

These examples consist of simulations of Ti-Ni interactions for shape memory alloy synthesis, productions of ferroalloys, combustion synthesis of advanced materials, copper smelting, etc.