Dynamic modelling of BOF process using FactSage macro

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Abstract: BOF process control is still a topic of interest. Dynamic model is the right way to study and improve the process. Multi-reactor based approach is used to model the process. The vessel is divided in three parts: bulk metal (lower bath), metal interacting with gas (upper bath) and emulsion region. Such a model has been developed earlier. However, the equilibrium calculations were made by minimizing free energy of the system using MATLAB or similar tools. In this work, FactSage macro is used to develop a similar dynamic model. Some preliminary result from this work will be presented here.