APPLICATIONS OF COMPUTATIONAL THERMODYNAMICS

B. Sundman

Many of the metallurgical techniques have developed by trial and errors for several thousand years. For example the blast furnace is probably the oldest process technique still in use and the modern developments have not been able to achieve more than marginal improvements. But with the increase of the capabilities of computers it is possible to treat larger systems and with the development of databases with theoretical and experimental data it is possible to make significant improvements in the processing of materials. Some examples of simulations and practical use of Computational thermodynamics will be presented.