MTDATA References
References to work involving MTDATA by NPL authors.

Dissolution of ZrO2, Al2O3, MgO and MgAl2O4 Particles in a B2O3 Containing Commercial Fluoride-free Mould Slag

INDUSTRIAL SLAG CHEMISTRY- A Case Study of Computational Thermodynamics
Taskinen P, Dinsdale A T, Gisby J A, Metal Separation Technologies III, Copper Mountain 2004

Theoretical study of steam grown oxides as a function of temperature, pressure and p(O2)
Davies R H, Dinsdale A T, Special issue of Materials at High Temperatures (to be published) (A PDF of this paper is available on our website)

Projet européen HIMERT : le point sur la réalisation de points fixes à hautes température

The enthalpy of a solid and liquid titanium - aluminium - vanadium alloy

The prediction of thermophysical properties of steels and slags
Robinson J A J, Dinsdale A T, Quested P N, 2nd International Congress on the Science and Technology of Steelmaking, University of Wales, Swansea, ISBN 1-86125-146-7, April 2001. (A PDF of this paper is available on our website)

Thermodynamics of isolated miscibility gaps


Thermochemical measurements and assessment of the phase diagrams in the system Y-Ba-Cu-O
Thermodynamic Modelling using MTDATA: A Description showing applications involving oxides, alloys and aqueous solutions

The thermodynamics of mineral-melt equilibria in the system CaO-MgO-Al$_2$O$_3$-SiO$_2$

High temperature corrosion and deposition phenomena on stainless steels

The calculation of phase equilibria of oxide core-concrete systems

A thermodynamic assessment of the Cr-Fe-O system

Predictive thermochemistry and phase equilibria of slags

Reference data for the thermodynamic properties of elements and other components

The compound energy model for ionic solutions with applications to solid oxides

A Critical assessment of thermodynamic and phase diagram data for the Al-O system


Thermodynamic and phase diagram data for the CaO-SiO$_2$ system

A thermodynamic assessment of the Ni-O, Cr-O and Cr-Ni-O systems using the ionic liquid and compound energy models

Application of the calculation of phase equilibria to the pyrometallurgical extraction from sulphide ores

MTDATA - The NPL databank for metallurgical thermochemistry
Application of MTDATA to the modelling of multicomponent equilibria
International Conference on High Temperatures, Chemistry of inorganic Materials",
3-7 April 1989, National Institute for Standards and Technology, Gaithersburg,
Maryland, USA. 

New approach to materials design: calculated phase equilibria for composition
and structure control
Barry T I, Chart T G, "R & D of high temperature materials for industry", editor E

Computations using MTDATA of Metal - Matte - Slag - Gas Equilibria
Conference of Metallurgists, CIM, Montreal, 1988, 11, 59.

Application of MTDATA to modelling of slag, matte, metal, gas phase equilibria
Molten Slags and Fluxes", 27-29 June 1988, University of Strathclyde, Glasgow,
p246-253, Institute of Metals.

Thermodynamics of Metal-Gas-Liquid Reactions