Thermo-Calc Software

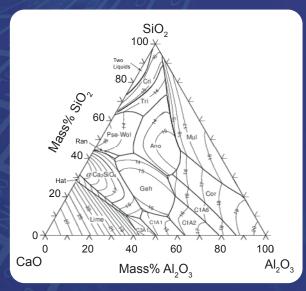
Powerful Software for Thermodynamic and Diffusion Calculations

Software:

- ▼ Thermo-Calc for thermodynamics and phase equilibria in multicomponent systems
- ✓ Diffusion module (DICTRA) for diffusion controlled transformations
- Precipitation module (TC-PRISMA) for precipitation kinetics
- ✓ **Software development kits** for linking Thermo-Calc to your own software codes
- Over 30 Databases for thermodynamic and mobility applications

Coming in Spring 2017

- ✓ 12 New and Updated Databases, including TCOX7, the metal oxides database which is suited to ceramics. Other updated databases: TCFE9 and MOBFE4 (steels), TCHEA2 (high entropy alloys), TCCU2 and MOBCU2 (Copper alloys), TCSLD3.2 and MOBSLD1 (solders), SLAG4.1 (slags), NUCL15 and MEPH15 (Nuclear materials) and TCNI8.1 (Ni Superalloys).
- ✓ DICTRA available in the Graphical Mode for the first time ever as an add-on module known as the Diffusion module.
- ✓ Expanded Property Model Calculator. The calculator which allows users to predict and optimize properties of materials based on models stored within the software has been expanded so that users can now develop their own property models using Python as a language.



Calculated phase diagram of the CaO-Al2O3-SiO2 system[4] using the TCOX database. Ano: anorthite, C1A1: CaO.Al2O3, C1A2: CaO.2Al2O3, C1A6: CaO.6Al2O3, C3A1: 3CaO.Al2O3, Cor: corundum, Cri: cristobalite, Geh: gehlenite, Hat: hatrurite, Mul: mullite, Pse-Wol: pseudo-wollastonite, Ran: rankinite, Tri: tridymite.

Visit our website to learn more about the release:

Thermo-Calc Software AB Email: info@thermocalc.com Phone: +46-8-545 959 30

www.thermocalc.com/release

USA, Canada and Mexico Email: paul@thermocalc.com Phone: (724) 731 0074

bismuth telluride lutetium granules metamaterials electrochemistry solid strontium doped lanthanum III-IV nitride materials crystal growth nanoribbons regenerative medicine cerium polishing powder organo-metallics thin film dysprosium pellets atomic layer deposition scandium-aluminum spersions aerospace ultra-light alloys van green technology battery lithium gallium arsenide high tv silicon Li Be surface functionalized nanoparticles efrac tantalu Mg Si S CI Ar Na palladium shot AI semiconductors ite Co Ga Ge Kr Ca As Se Br Rb Sr Y Zr Nb Mo Tc Ru Rh Pd Ag Cd In Sn Sb Xe Te Ba Ta Os Hg TI Bi Po Rf Sg Rg Cn Ra Db Bh Hs Mt Ds Uut FΙ Uup Uus photovoltaics quantum dots neodymium foil Pm Sm Tb Dy Ho dielectrics Nd Eu Gd Lu spintronics Bk П No rare earth metals nanofabrics nickel toam titanium robotic parts platinum ink laser crystals tungsten carbide carbon nanotubes gold nanoparticles stable isotopes optoelectronics mischmetal optoelectronic hafnium tubing Nd:YAG fuel cell materials anti-ballistic ceramics germanium windows superconductors ultra high purity material 99.999% ruthenium spheres erbium doped fiber optics gadolinium wire advanced polymers buckey balls sputtering targets metalloids rhodium sponge shape memory alloys alternative energy electrochemistry nanomedicine tellurium MERICAN EMENTS catalog: americanelements.com THE MATERIALS SCIENCE COMPANY ® ©2001-2014. American Elements is a U.S. Registered Trademark. diamond micropowder neodymium foil single crystal silicon gadolinium wire advanced polymers https://doi.org/10.1557/mrs.2017.55 Published online by Cambridge University Press single crystal silicon macromolecules