Calculations of the surface energy of simple liquid metals

Kumaravadivel, R. and Evans, R.

Bristol Univ., H.H. Wills Phys. Lab., United Kingdom

Abstract

Calculations of the surface energy of eleven liquid metals are presented. These are based on the recently proposed pseudo-atom theory of Evans (see abstr. A72625 of 1974). The results are in good agreement with experiment for the alkali metals but overestimate the magnitude of the surface energy for several of the polyvalent metals.

Indexed keywords

Engineering uncontrolled terms: SURFACE ENERGY

Engineering main heading: LIQUID METALS