

FIG. 3a

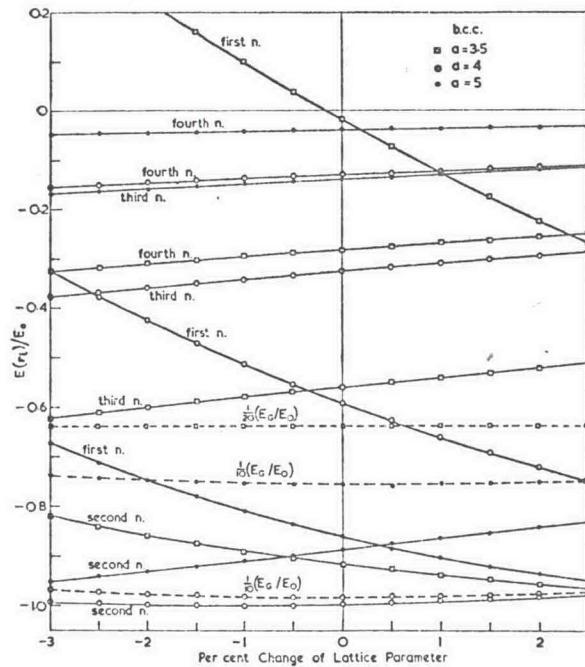


FIG. 3b

FIG. 3. Interaction energy as a function of lattice parameter for various neighbours interacting with Morse potential of (a) $a = 4$ and 5.5 , in a face-centred cubic crystal, and (b) $a = 3.5$, 4 , and 5 , in a body-centred cubic crystal. The broken lines show a fraction of the total lattice energy.

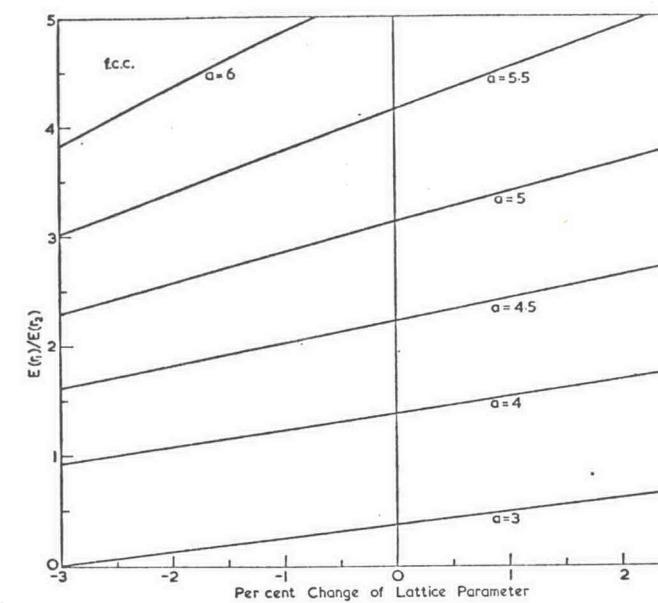


FIG. 4a

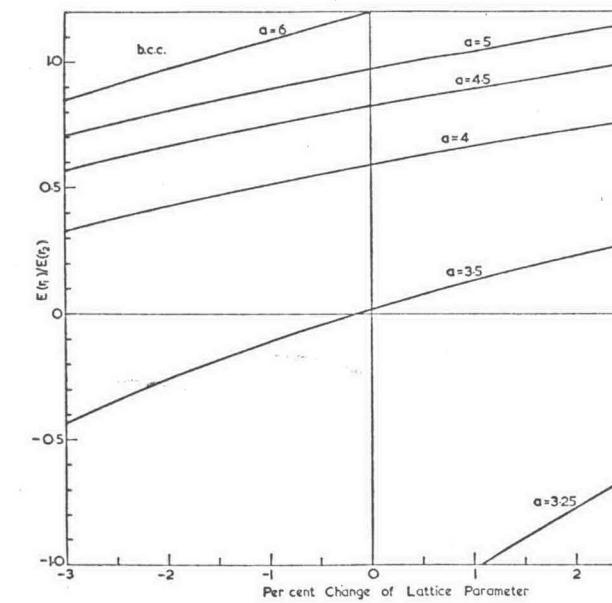


FIG. 4b

FIG. 4. Variation with lattice parameter of $E(r_1)/E(r_2)$ for various Morse potentials in (a) a face-centred cubic crystal and (b) a body-centred cubic crystal.