

Normal coordinates analysis of the hexamminochromium (III) ion. a simplified $m(NX)_6$ model

Diaz, Guillermo

Acevedo, Roberto

A normal coordinates analysis for the hexamminochromium (III) ion, in octahedral symmetry has been undertaken. A simplified $M(NX)_6$ model has been adopted, since many of the gerade vibrational frequencies are still unknown. It is found that a very simple and consistent force field is able to reproduce the observed vibrational frequencies as well as gives a reasonable set of force constants for this complex ion. This calculation supports the assignments, made in literature by several workers. © 1983, Taylor & Francis Group, LLC. All rights reserved.