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Lattice Dynamical Calculations for the Co-Fe Alloys

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Abstract: Lattice dynamical calculations are performed on $\text{Co}_{0.92}\text{-Fe}_{0.08}$ alloy with fcc structure. The de Launay Angular force (DAF) model is used to represent the ion-ion interactions, and the long-range ion-electron interactions are accounted for along the lines of the Sharma-Joshi scheme. The frequency distribution and the lattice specific heat are also computed for the studied alloys. The present theoretical results are in reasonable agreement with the available experimental data.

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