Numerical Methods in Physics Phonons

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Abstract

Here we have the abstract, stuff about main results and what not.

1 Introduction

Placeholder

2 Theory

The structure of crystals is typically described by using a lattice $\bar{l} = (l_{x1}, l_{x2}, l_{x3})$, which is a vector of integers that describes the position of every atom in a crystal structure in terms of a lattice constant a. If one then go on to describe an atoms displacement in this structure as $\bar{u}^l = (u^l_{x1}, u^l_{x2}, u^l_{x3})$, we can use this to get an expression of the

- 3 Code
- 3.1 Algorithm design
- 3.2 System description
- 4 Results
- 5 Conclusions

References

- [1] Neil W. Ashcroft , N. David Mermin, Solid State Physics
- [2] Carl Nordling, Jonny Östermann, Physics handbook