



Introduction to Lattice Dynamics (Cambridge Topics in Mineral Physics and Chemistry)

By Martin T. Dove

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The vibrations of atoms inside crystals - lattice dynamics - is basic to many fields of study in the solid-state and mineral sciences. Lattice dynamics is becoming increasingly important for work on mineral stability. This book provides a self-contained text that introduces the subject from a basic level and then takes the reader through real applications of the theory. The book is aimed at advanced undergraduates, graduate students and research workers in the earth and solid-state sciences who need to incorporate lattice dynamic treatments into their work. Applications include the use of lattice dynamics instabilities to study the origin of phase transitions in crystals and the use of vibrational spectra to obtain information about inter-atomic forces.

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Review

' ... It is enjoyable to read and will be an asset to those struggling to get to grips with this subject. Any experimentalist hoping to understand crystalline material behaviour and stability would also, I hope, want to secure an understanding of lattice dynamics, if they have not already done so. This book is an excellent place to start that process.' Geological Magazine

' ... provides a self-contained text that introduces the subject from a basic level and takes the reader on to the research level through application of the theory to real world situations ...' Geophysics

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