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Definition. A phonon is the quantum mechanical description of an elementary vibrational motion in which a lattice of atoms or molecules uniformly oscillates at a single frequency. In classical mechanics this designates a normal mode of vibration.

### **Phonon - Wikipedia**

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An atom is the smallest constituent unit of ordinary matter that has the properties of a chemical element. Every solid, liquid, gas, and plasma is composed of neutral or ionized atoms.

### **Atom - Wikipedia**

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### **Chapter 1 The basics of quantum mechanics**

Amber is a package of programs for molecular dynamics simulations of proteins and nucleic acids

### **The Amber Molecular Dynamics Package**

Amber 12 Reference Manual Principal contributors to the current codes: David A. Case (Rutgers University) Tom Darden (OpenEye) Thomas E. Cheatham III (Utah)

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### **Ductile vs. brittle fracture - people.Virginia.EDU**

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