

Introduction to Crystallography

1. Run the *MATTER* software available on computers in the Department (Laboratory 201). Work your way through *Basic Crystals* and pages 1–5 and 7–11 inclusive of *2-D Crystallography* in the *Introduction to Crystallography* section. Try some of the *Questions and Exercises*.
2. Define the terms *lattice* and *motif*. Why are these useful concepts in the description of crystal structure? Illustrate your answer using the examples of the structures of Cd (a hexagonal close-packed metal) and NaCl.