

3.60 Symmetry, Structure and Tensor Properties of Materials

Problem Set 6

(1) Repeat the assignment in which you attempted to locate symmetry elements and the conventional unit cell this time for each of the four attached patterns.

This time you will approach the exercise armed with familiarity with the 17 unique two-dimensional plane groups. Accordingly, through a simple process of elimination, you should be able to easily identify the plane group, know which symmetry elements must be present, and know just where to look for them.

State the symbol for the plane group of each pattern as well.









