

Tutorial problems and questions

1. Given the following Wul plots (Figures. 11, 12, 13, and, 14), draw the corresponding equilibrium shapes of the crystals.

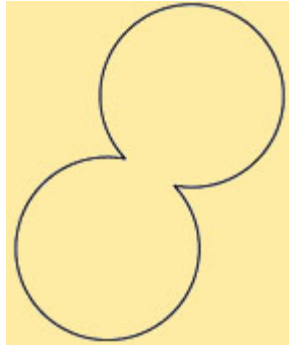


Figure 11: Schematic Wul plot

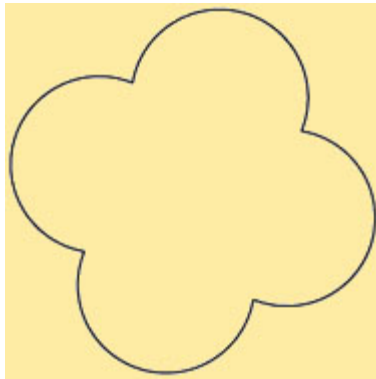


Figure 12: Schematic Wul plot

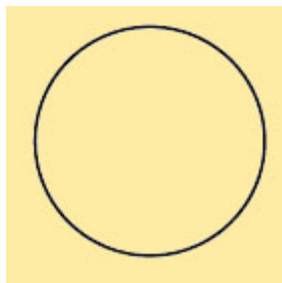


Figure 13: Schematic Wul plot

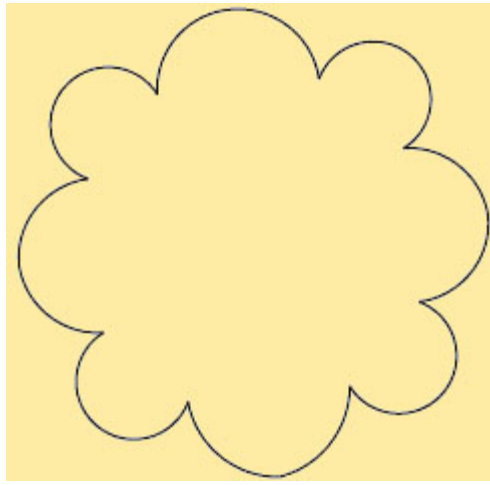


Figure 14: Schematic Wul plot

Answer

Given the Wul plots (Figures. 11, 12, 13, and, 14), here are the cor-responding equilibrium shapes (Figures. 18, 19, 20, and, 21).

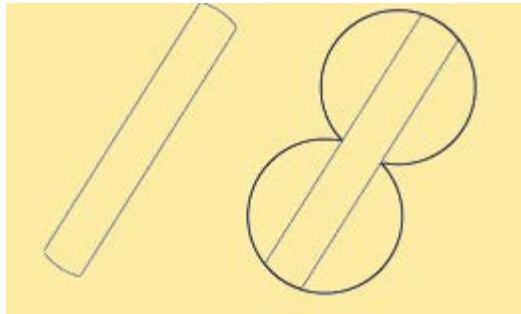


Figure 18: Wul plot and equilibrium shape

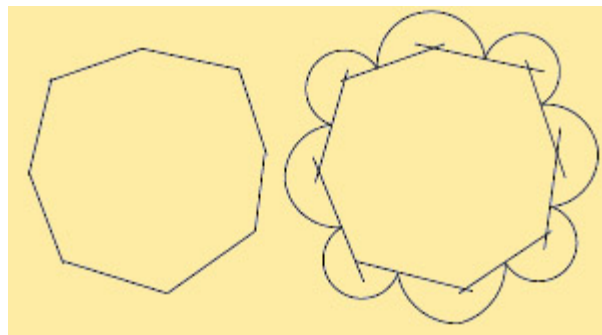


Figure 19: Wul plot and equilibrium shape

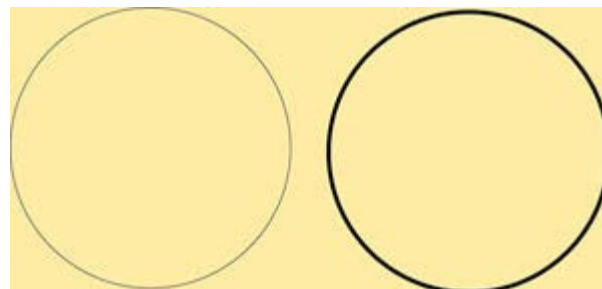


Figure 20: Wul plot and equilibrium shape

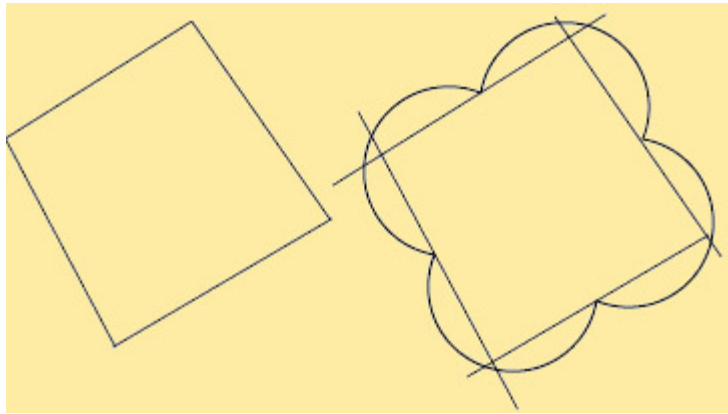


Figure 21: Wul plot and equilibrium shape

2. Given the following equilibrium shapes (Figures. 15, 16, and, 17) draw the simplest Wul plots that would give rise to such equilibrium shapes.

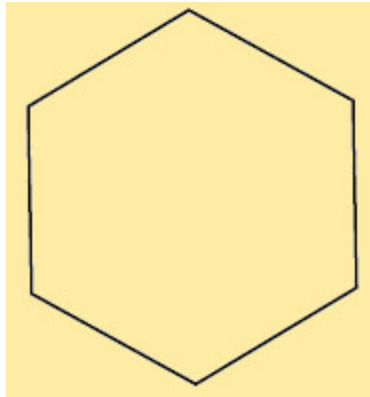


Figure 15: Equilibrium shape

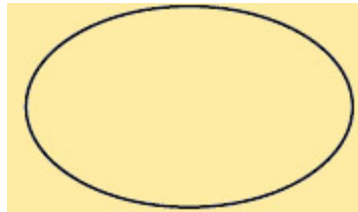


Figure 16: Equilibrium shape

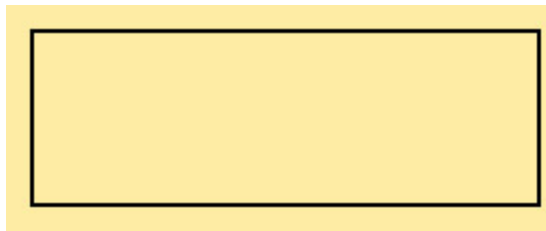


Figure 17: Equilibrium shape

Answer

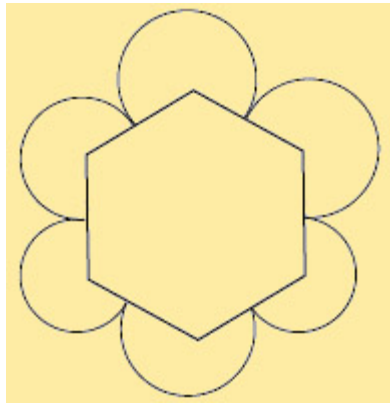


Figure 22: Simplest Wul plot for the given equilibrium shape.

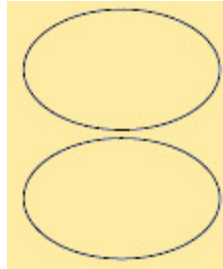


Figure 23: Simplest Wul plot for the given equilibrium shape.

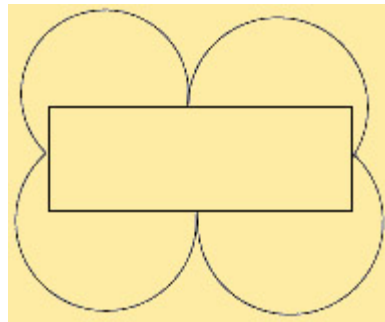


Figure 24: Simplest Wul plot for the given equilibrium shape.