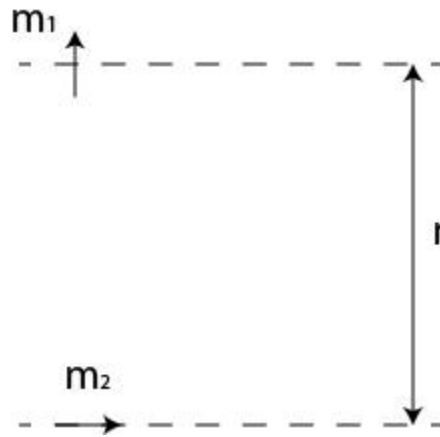


Homework Chapter 6.1

1. Of the following materials which would you expect to be paramagnetic and which diamagnetic, O_2 , KCl, diamond, Zn, water, copper? Explain.
2. Assume that you have two magnetic dipoles separated a distance r apart from each other. Determine the torque on \mathbf{m}_1 caused by \mathbf{m}_2 .



3. Consider the two dipoles \mathbf{m}_1 and \mathbf{m}_2 shown below. Determine the force of \mathbf{m}_1 on \mathbf{m}_2 .

