Chapter 10 Problem

1. Assume a 180º domain wall exists in a demagnetized, uniaxial magnetic material.

a) Sketch what happens to the domain magnetization and domain wall in the two cases described below for $H > 0$ but less than saturation, i.e.

i) applied field parallel to the easy axis,

ii) applied field perpendicular to the easy axis

b) Sketch the *M*-*H* loops in each case.

c) Describe how a defect might pin or impede domain wall motion.