



FIG. 10.7 Representation of a vortex lattice in a Type II superconductor. The normal cores are represented by dots; the screening currents by circles. The side view shows the distortion of an applied uniform magnetic field as it is channeled through each vortex core by the screening supercurrents, leaving most of the superconducting material free of field. Arrows at the top of the figure show the direction of the magnetic Lorentz force F_L acting on the vortex array when a transport current I is applied in the direction shown. (From Ekin 1983.)