



Figure 3-2 *Left:* The collector current in detector D of Figure 3-1 as a function of the kinetic energy of the incident electrons, showing a diffraction maximum. The angle θ in Figure 3-1 is adjusted to 50° . If an appreciably smaller or larger value is used, the diffraction maximum disappears. *Right:* The current as a function of detector angle for the fixed value of electron kinetic energy 54 eV.