FIGURE 11-1A  (a) Honeycomb cell pattern; (b) honeycomb pattern with two sizes of cells
FIGURE 11-1B  (a) Honeycomb cell pattern; (b) honeycomb pattern with two sizes of cells
FIGURE 11-2  Hexagonal cell grid superimposed over a metropolitan area
FIGURE 11-3A  (a) Center excited cell; (b) edge excited cell; (c) corner excited cell
**FIGURE 11-3B**  (a) Center excited cell; (b) edge excited cell; (c) corner excited cell
**FIGURE 11-3C** (a) Center excited cell; (b) edge excited cell; (c) corner excited cell
FIGURE 11-4  Cellular frequency reuse concept
FIGURE 11-5  Locating first tier co-channel cells
FIGURE 11-6  Determining first tier co-channel cells for Example 11-2
FIGURE 11-7  Co-channel interference
FIGURE 11-8  Co-channel reuse ratio
FIGURE 11-9  Adjacent-channel interference

Imperfect filtering allows some of the $f_2$ signal to enter the receiver and interfere with $f_1$. The filter response shows a passband for $f_1$, $f_2$, $f_3$, $f_4$, and $f_5$. Mobile unit 1 receives a strong $f_2$ signal and a weak $f_1$ signal, while mobile unit 2 receives a weak $f_2$ signal and a strong $f_1$ signal.
FIGURE 11-10  Cell splitting
FIGURE 11-11A  Sectoring: (a) 120-degree sectors; (b) 60-degree sectors
FIGURE 11-11B  Sectoring: (a) 120-degree sectors; (b) 60-degree sectors
FIGURE 11-12  Simplified cellular telephone system
FIGURE 11-13  Handoff