Figure 3-1

Three basic types of antennas: the small loop (a), short dipole (b), and slot antenna (c). The small loop and short dipole (loop axis parallel to dipole) have identical field patterns with E and H interchanged. The slot and dipole have the same field patterns with E and H interchanged. Directivities \( D \) are identical, as indicated.
Figure 9-1
Whereas the stubs of (a) are a poor radiator, the slot of (b) is a good, efficient radiator because the currents can spread out on the metal sheet.

Figure 9-2
Slot antennas fed by coaxial transmission lines.
Figure 9-4
Waveguide-fed slot (a) and T-fed slot (b).

Figure 9-5
Broadsided array of slots in waveguide.

Figure 9-6
A $\lambda/2$ slot in an infinite flat sheet (a) and a complementary $\lambda/2$ dipole antenna (b).

Figure 9-7
Radiation-field patterns of slot in an infinite sheet (a) and of complementary dipole antenna (b). The patterns have the same shape but with $E$ and $H$ interchanged.