

FIGURE 3.1 Venn diagrams. (A) Shaded region: $E \cup F$; (B) shaded region: EF ; (C) shaded region: E^c .

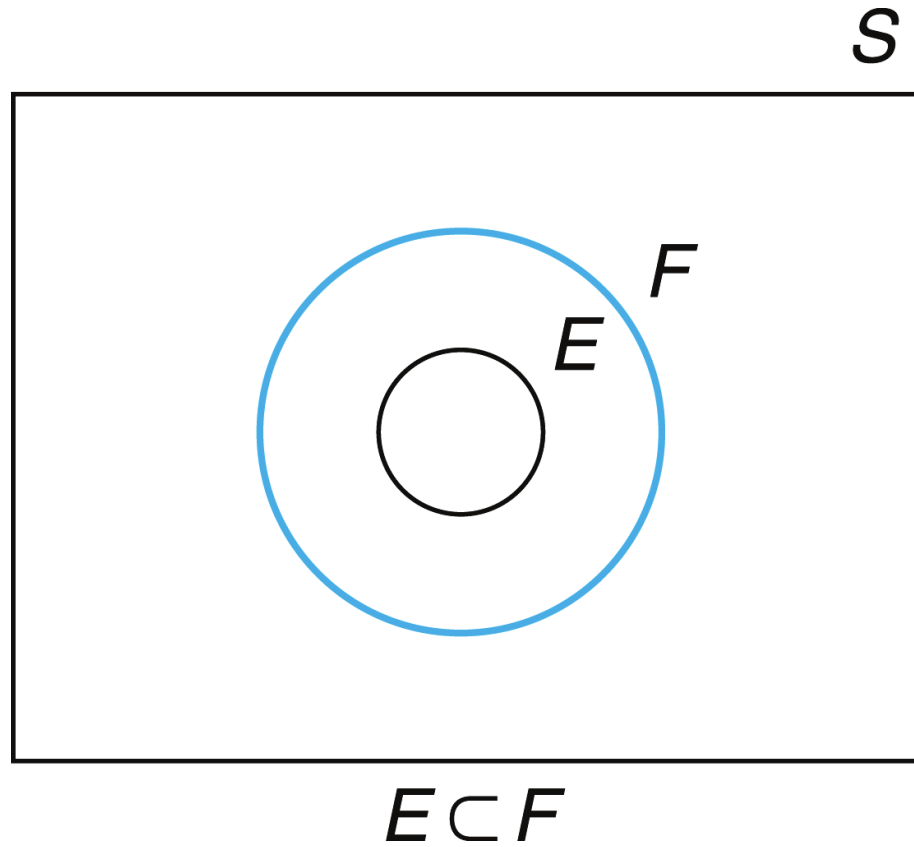


FIGURE 3.2 Venn diagram.

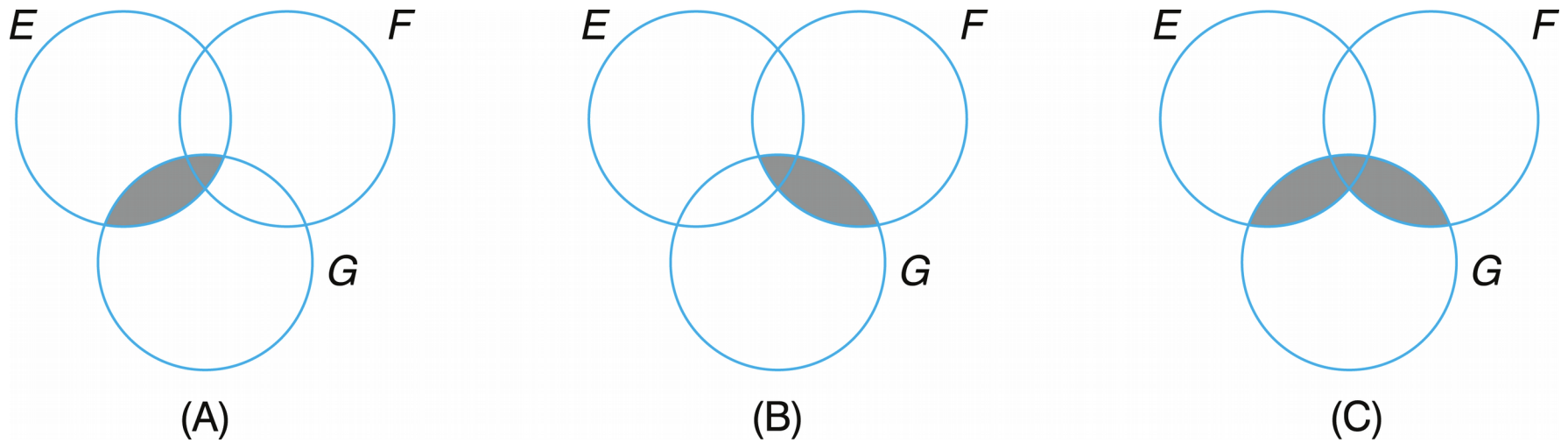


FIGURE 3.3 Proving the distributive law. (A) Shaded region: EG ; (B) shaded region: FG ; (C) shaded region: $(E \cup F)G$, $(E \cup F)G = EG \cup FG$.

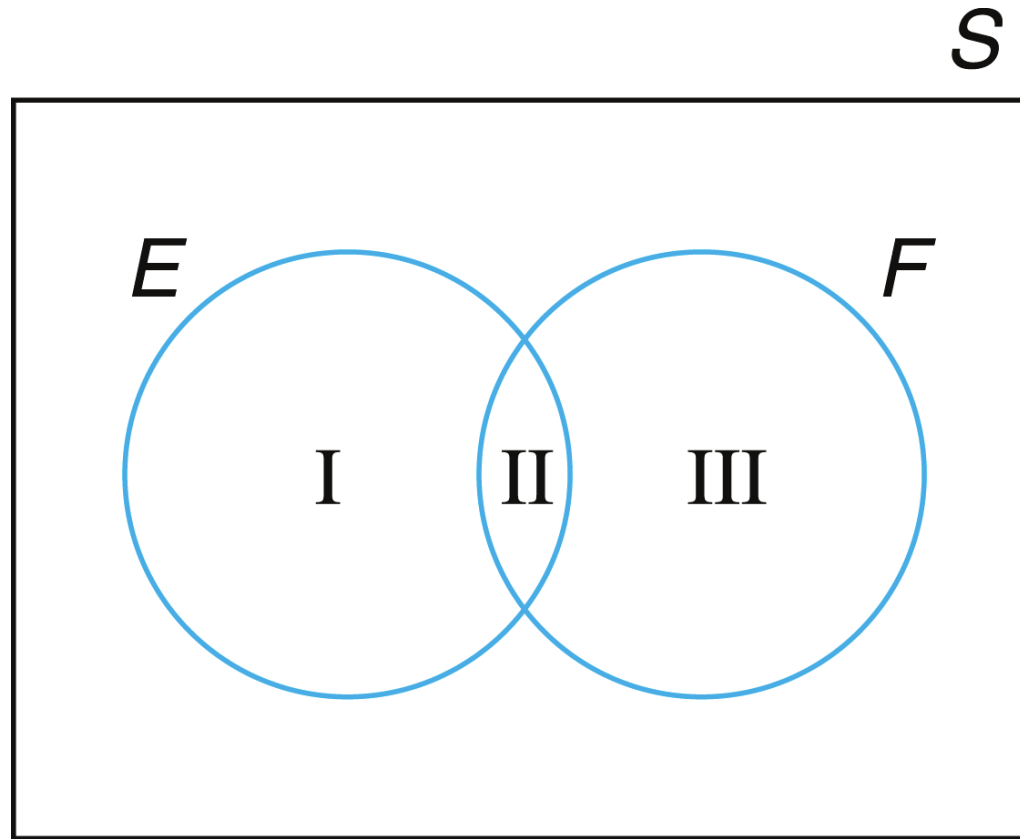


FIGURE 3.4 Venn diagram.

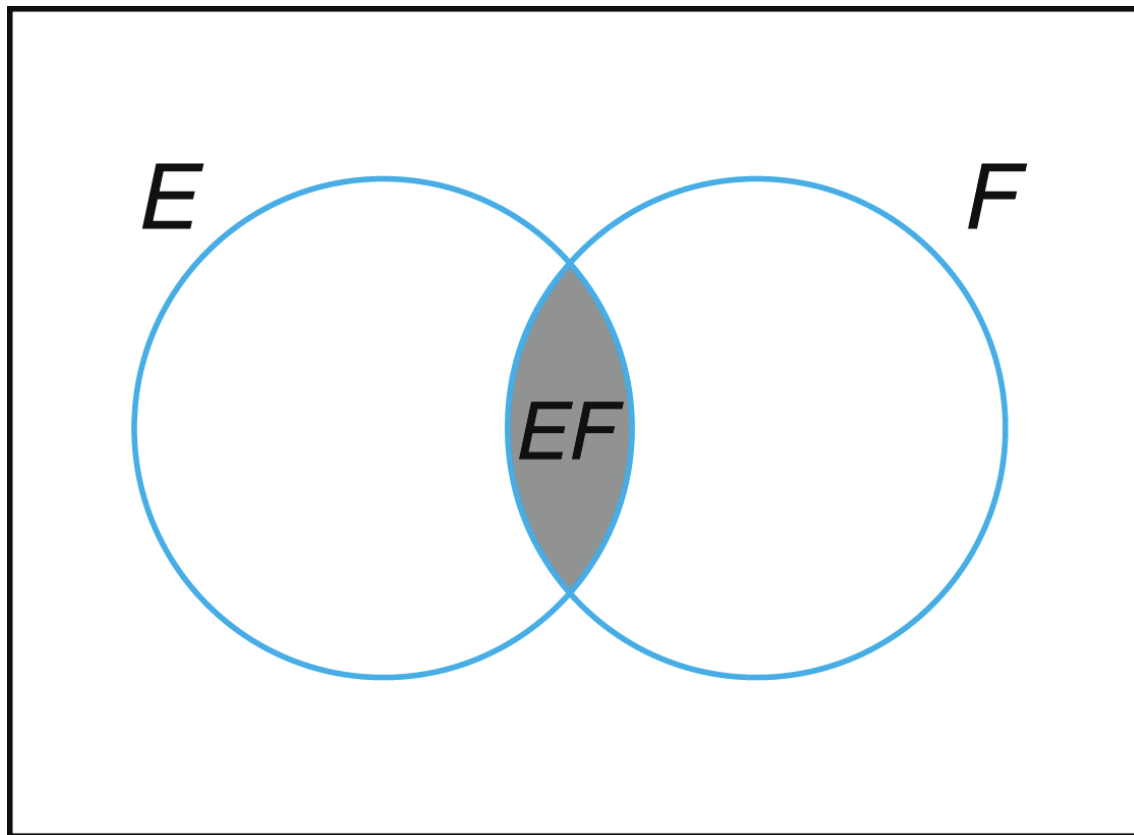


FIGURE 3.5 $P(E|F) = \frac{P(EF)}{P(F)}$.

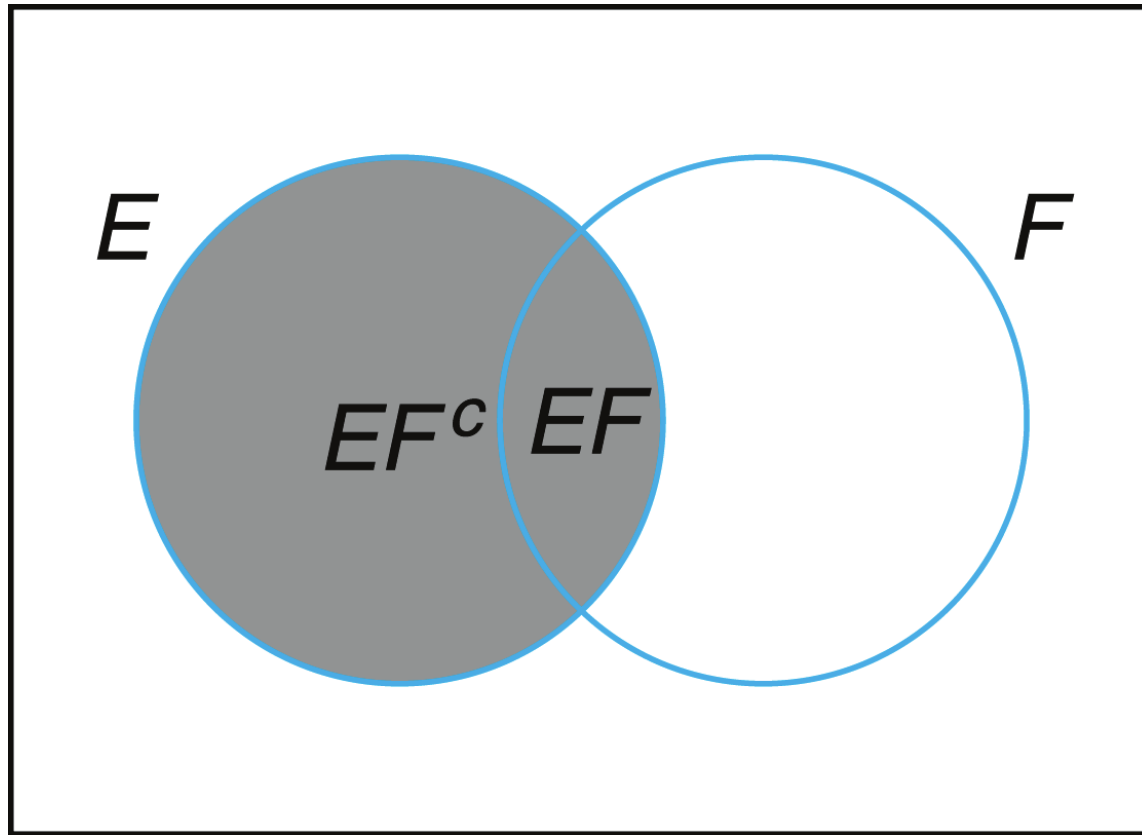


FIGURE 3.6 $E = EF \cup EF^c$.

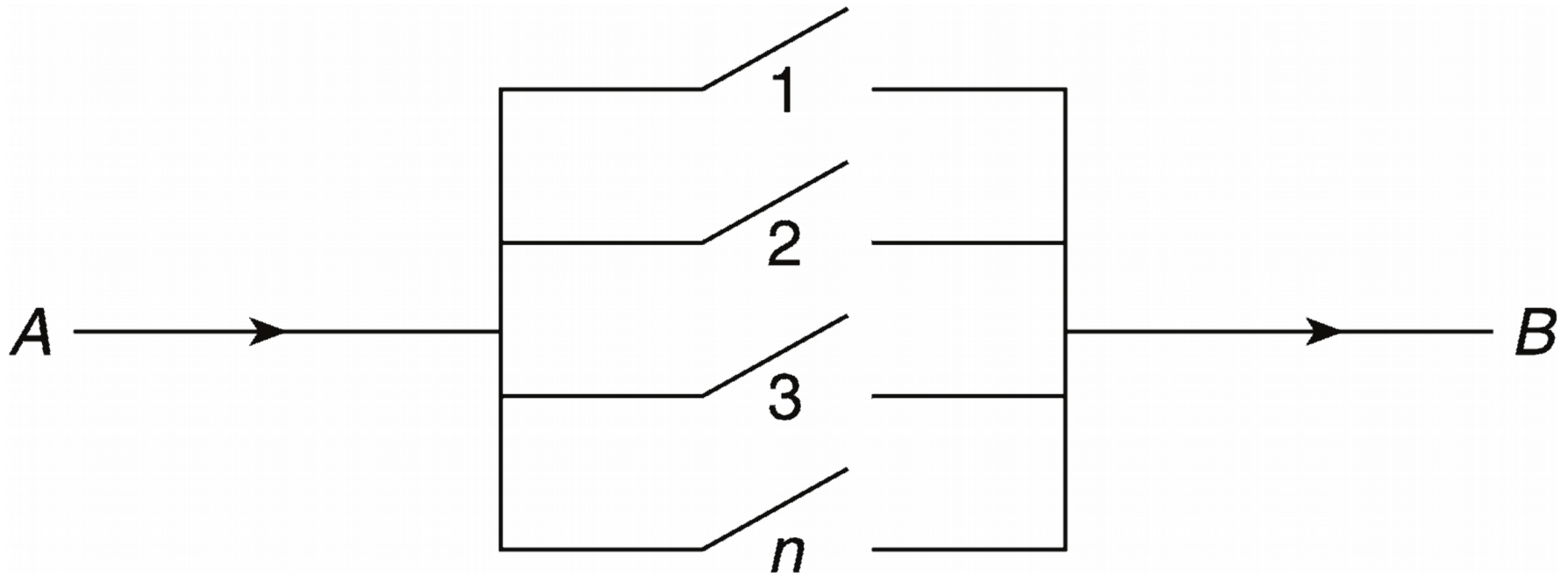


FIGURE 3.7 Parallel system: functions if current flows from A to B.