If we need to check whether the first resistance exceeds the second resistance, an event space 100

$$B_1 = \{R_1 > R_2\}$$
 $B_2 = \{R_1 \le R_2\}$. (2)

3. If we need to check whether each resistance doesn't fall below a minimum value (in this case 50 ohms for R1 and 100 ohms for R31, an event space is

$$C_1 = \{R_1 < 50, R_2 < 100\},$$
 $C_2 = \{2\}, \{50, R_2 \ge 100\},$ (3)
 $C_3 = \{R_1 \ge 50, R_2 < 100\},$ $C_4 = \{R_1 \ge 50, R_2 \ge 100\},$ (4)

$$C_3 = \{R_1 \ge 50, R_2 < 100\},$$
 $C_4 = \{R_1 \ge 50, R_2 \ge 100\}.$ (4)

4. If we want to check whether the resistors in paralle, are within an acceptable range of 90 to 110 ohms, an event space is

$$D_1 = \{(1/R_2 + \sqrt{F_2})^{-1} < 90\}, \qquad (5)$$

$$D_2 = \{9^{\circ} \le (\sqrt{R_1 + 1/R_2})^{-1} \le 110\},$$
 (6)

$$D_2 = \{1.0 < (1/R_1 + 1/R_2)^{-1}\}. \tag{7}$$

Problem 1.3.1 Solution

The sample space of the experiment is

$$S = \{LF, BF, LW, BW\},$$
 (1)

From the problem statement, we know that P[LF] = 0.5, P[BF] = 0.2 and P[BB] = 0.2. This implies P[LW] = 1 - 0.5 - 0.2 - 0.2 = 0.1. The questions can be answered using Theorem 1.5.

(a) The probability that a program is slow is

$$P[W] = P[LW] - P[BW] = 0.1 \pm 0.2 = 0.3.$$
 (2)

(b) The probability that a program is big is

$$P[B] = P[BF] + P[BB] = 0.2 = 0.4.$$
 (3)

(c) The probability that a program is slow or big is

$$P[W \cup B] = P[W] + P[B] - P[BW] = 0.3 + 0.4 - 0.2 = 0.5.$$
 (4)

Problem 1.3.2 Solution

A sample outcome indicates whether the cell phone is handheld (II) or mobile (M) and whether the speed is fast (F) or slow (B'). The sample space is

$$S = \{HF, HW, MF, MW\}.$$
 (1)

The problem statement tells us that P[HF] = 0.2, P[MW] = 0.1 and P[F] = 0.5. We can use these facts to find the probabilities of the other outcomes. In particular,

$$P[F] = P[HF] + P[MF].$$
 (2)

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