

Chapter 1

1-1 $d_1 + d_2 = \sqrt{2(100)} + \sqrt{2(800)} = \underline{54.14 \text{ miles}}$

1-2 Using (1-1),

$$d_1 = \sqrt{2h_1} = \sqrt{2(1000)} \quad , \quad d_2 = \sqrt{2h_2}$$

$$d_1 + d_2 = 55 \text{ miles} \Rightarrow \sqrt{2(1000)} + \sqrt{2h_2} = 55 \text{ miles}$$

$$\Rightarrow h_2 = \frac{(55 - \sqrt{2(1000)})^2}{2} = \underline{52.8 \text{ ft}}$$



1-3



$$(h + r_e)^2 = d^2 + r_e^2$$

$$\Rightarrow h^2 + 2hr_e = d^2 \quad \text{where } h \ll r_e$$

$$\Rightarrow d^2 \approx 2hr_e \quad \text{and } r_e = \frac{1}{4}(3960 \text{ miles}) = 5280 \text{ miles}$$

Let h = antenna height in feet, and d in miles.

$$\Rightarrow d^2 (\text{miles})^2 = 2h (\text{ft}) \left(\frac{1 \text{ mile}}{5280 \text{ ft}} \right) (5280 \text{ miles})$$

$$\Rightarrow d^2 = 2h \quad \text{or} \quad \underline{d = \sqrt{2h}}$$

1-4

$$2d = 30 \text{ miles} = 2\sqrt{2h} \Rightarrow 4(2h) = (30)^2$$

$$\Rightarrow h = (30)^2 / 8 = \underline{112.5 \text{ ft}}$$

1-5

$$d_1 = 2h = \sqrt{2(100)} = 14.14 \text{ m} \quad d_2 = 2h = \sqrt{2(4)} = 2.83 \text{ miles}$$

$$\text{Total radius of coverage} = d_1 + d_2 = 14.14 + 2.83 = \underline{16.97 \text{ miles}}$$

1-6

$$\{u_i\} = \{-1.0, 0.0, 1.0, 4.0\} \quad i=1, 2; \quad p_1=p_2=0.2; \quad p_3=p_4=0.3$$

$$\Rightarrow I_1 = I_2 = \frac{-\ln(0.2)}{\ln 2} = 2.322 \text{ bits}, \quad I_3 = I_4 = \frac{-\ln(0.3)}{\ln 2} = 1.737 \text{ bits}$$

$$H = \sum_{i=1}^4 p_i I_i = 2 [0.2(2.322) + 0.3(1.737)] = \underline{1.971 \text{ bits}}$$

1-7

$$I = \log_2(x) \Rightarrow 2^I = x \quad \text{Thus, } \log_2(2^I) = \log_2(x)$$

$$\Rightarrow I \log_2(2) = \log_2(x) \Rightarrow I = \frac{\log_2(x)}{\log_2(2)} = \log_2(x)$$

Couch Solution Manual

Patricia I. Hooper



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