

CHAPTER 4 Solutions to Selected Problems
4.1

$$a) R(t) = e^{-\left(\frac{t}{10}\right)^2} \rightarrow R(100) = e^{-\left(\frac{100}{10}\right)^2} = 0.12$$

$$b) R(1) = R(t_{\text{mean}}) = e^{-\left(\frac{1}{10}\right)^2} = 0.99$$

$$t_{\text{mean}} = R^{-1}(\ln(0.99))^{1/2} = 10 \sqrt{-\ln(0.99)} = 20.575 \text{ days}$$

$$c) \text{MTTF} = \theta^{-1} \Gamma(3 + 1/\beta) = 500 \cdot \Gamma(3 + 1/1.4) = 500 \cdot \Gamma(3.714) = 500 \cdot 9400.72 = 4700360 \text{ days}$$

$$d) \sigma^2 = \theta^2 \left\{ \Gamma(3 + 2/\beta) - [\Gamma(3 + 1/\beta)]^2 \right\} = 500^2 \left\{ \Gamma(3 + 2/1.4) - [\Gamma(3 + 1/1.4)]^2 \right\} = 500^2 \left\{ \Gamma(2.43) - [\Gamma(1.714)]^2 \right\} \\ = 500^2 \left\{ 12.07932 - (1.900723)^2 \right\} = 112462.90 \rightarrow \sigma = \sqrt{\sigma^2} = 333.90 \text{ days}$$

$$e) t_{.5} = t_{\text{mean}} = R^{-1}(\ln(0.5))^{1/2} = 500 \sqrt{-\ln(0.5)} = 413.32 \text{ days}$$

$$f) t_{.9} = R^{-1}(\ln(0.1))^{1/2} = 500 \sqrt{-\ln(0.1)} = 114.77 \text{ days}$$

$$g) t_{.9} = R^{-1}(\ln(0.1))^{1/2} = 500 \sqrt{-\ln(0.1)} = 114.77 \text{ days}$$

4.2

$$a) R(t) = e^{-\left(\frac{t}{10}\right)^2} \rightarrow R(100) = e^{-\left(\frac{100}{10}\right)^2} = 0.12$$

$$b) R(100) + 200 = \frac{R(100) + 200}{R(200)} = \frac{e^{-\left(\frac{100}{10}\right)^2} + 200}{e^{-\left(\frac{200}{10}\right)^2}} = 0.887$$

$$4.5) A(t) = 0.07 + \frac{1.8}{10} \left(\frac{t}{10} \right)^2 \rightarrow A(t) = e^{-\left[0.07 + \frac{1.8}{10} \left(\frac{t}{10} \right)^2 \right]} \rightarrow R(t) = e^{-\left[0.07 + \frac{1.8}{10} \left(\frac{t}{10} \right)^2 \right]} = 0.977$$

$$\text{For } t_{\text{mean}}, \text{ set } A(t_{\text{mean}}) = e^{-\left[0.07 + \frac{1.8}{10} \left(\frac{t_{\text{mean}}}{10} \right)^2 \right]} = 0.50$$

$$\text{and solve for } t_{\text{mean}}: 0.07 t_{\text{mean}} + \left(\frac{t_{\text{mean}}}{10} \right)^2 = 0.031 \rightarrow t_{\text{mean}} = 5.20 \text{ yrs, by trial and error}$$

4.6) Failure time is Weibull with $\beta = 1.5$ and $\theta = 500$.

$$a) R(50) = e^{-\left(\frac{50}{500}\right)^{1.5}} = 0.887$$

$$b) t_{.9} = \theta \left[-\ln(R) \right]^{1/\beta} \rightarrow t_{.9} = 500 \left[-\ln(0.1) \right]^{1/1.5} = 111.54 \text{ hrs}$$

$$c) \text{MTTF} = \theta^{-1} \Gamma(3 + 1/\beta) = 500 \cdot \Gamma(3 + 2/3) = 500 \cdot 900 = 450,000 \text{ hrs}$$

Introduction To Reliability Maintainability Engineering Solution

Yi-Tong Ma



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