

13 TO SOLVE TWO AS A REGULAR CPM PROBLEM, IT IS NECESSARY TO CALCULATE E_{mean} AND σ FOR EACH ACTIVITY. FOR ACTIVITY A,

$$E_{\text{mean}} = \frac{1}{6} [1 + (4)(2) + 5] = 2.33$$

$$\sigma_A = \frac{1}{6} (5-1) = .67$$

THE FOLLOWING TABLE IS GENERATED IN THE SAME MANNER.

ACTIVITY	E_{mean}	σ
START	0	0
A	2.33	.67
B	10.5	2.17
C	11.83	2.17
D	4.17	.83
FINISH	0	0



BY OBSERVATION, THE CRITICAL PATH IS START-A-B-C-D-FINISH. THE PROJECT VARIANCE IS

$$\sigma^2 = (.67)^2 + (2.17)^2 + (2.17)^2 + (.83)^2 = 10.56$$

THE PROJECT STANDARD DEVIATION IS

$$\sigma = \sqrt{10.56} = 3.25$$

SO, WE ASSUME THE COMPLETION TIMES ARE NORMALLY DISTRIBUTED WITH A MEAN OF 28.83 AND A STANDARD DEVIATION OF 3.25

THE STANDARD NORMAL VARIABLE IS

$$Z = \frac{28.83 + .5 - 42}{3.25} = .56$$

AREA UNDER TAIL FOR $Z = .56$ IS .2123
 $.50 - .2123 = .2877$ (28.77%)



14 $\lambda = 20$

FROM PAGE 1-22,

$$(a) P\{X=17\} = \frac{e^{-20} (20)^{17}}{17!} = .076$$

$$\begin{aligned}
 (b) P\{X \leq 3\} &= P(0) + P(1) + P(2) + P(3) \\
 &= \frac{e^{-20} (20)^0}{0!} + \frac{e^{-20} (20)^1}{1!} + \frac{e^{-20} (20)^2}{2!} + \frac{e^{-20} (20)^3}{3!} \\
 &= 2.88 \times 10^{-9} + 4.12 \times 10^{-8} + 4.12 \times 10^{-7} + 2.75 \times 10^{-6} \\
 &= 3.2 \times 10^{-6}
 \end{aligned}$$

15 FROM PAGE 1-22,

$$\mu = 1/23$$

$$P\{X > 25\} = 1 - F(25) = e^{-\left(\frac{1}{23}\right)(25)} = .337$$

Mechanical Engineering Solution Manual

Laurie Kelly, Autar K Kaw



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Table of Contents Mechanical Engineering Solution Manual

1. Understanding the eBook Mechanical Engineering Solution Manual
 - The Rise of Digital Reading Mechanical Engineering Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Engineering Solution Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanical Engineering Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Engineering Solution Manual
 - Personalized Recommendations

- Mechanical Engineering Solution Manual User Reviews and Ratings
- Mechanical Engineering Solution Manual and Bestseller Lists
- 5. Accessing Mechanical Engineering Solution Manual Free and Paid eBooks
 - Mechanical Engineering Solution Manual Public Domain eBooks
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- 6. Navigating Mechanical Engineering Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanical Engineering Solution Manual Compatibility with Devices
 - Mechanical Engineering Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanical Engineering Solution Manual
 - Highlighting and Note-Taking Mechanical Engineering Solution Manual
 - Interactive Elements Mechanical Engineering Solution Manual
- 8. Staying Engaged with Mechanical Engineering Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanical Engineering Solution Manual
- 9. Balancing eBooks and Physical Books Mechanical Engineering Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Engineering Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanical Engineering Solution Manual
 - Setting Reading Goals Mechanical Engineering Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanical Engineering Solution Manual
 - Fact-Checking eBook Content of Mechanical Engineering Solution Manual

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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