

Section 3.2

- 3-1. Continuous
- 3-2. Discrete
- 3-3. Continuous
- 3-4. Discrete
- 3-5. Discrete
- 3-6. Continuous
- 3-7. Discrete
- 3-8. Continuous
- 3-9. Continuous

Section 3.3

- 3-10. a) Engineers with at least 36 months of full-time employment.
 b) Samples of cement blocks with compressive strength of at least 7000 kg per square centimeter.
 c) Measurements of the diameter of forged pistons that conform to engineering specifications.
 d) Cholesterol levels at most 180 or at least 220.
- 3-11. The intersection of A and B is empty, therefore $P(X \in A \cap B) = 0$.
 a) Yes, since $P(X \in A \cap B) = 0$.
 b) $P(X \in A^c) = 1 - P(X \in A) = 1 - 0.4 = 0.6$
 c) $P(X \in B^c) = 1 - P(X \in B) = 1 - 0.6 = 0.4$
 d) $P(X \in A \cup B) = P(X \in A) + P(X \in B) - P(X \in A \cap B) = 0.4 + 0.6 - 0 = 1$
- 3-12. a) $P(X \in A^c) = 1 - P(X \in A) = 1 - 0.3 = 0.7$
 b) $P(X \in B^c) = 1 - P(X \in B) = 1 - 0.25 = 0.75$
 c) $P(X \in C^c) = 1 - P(X \in C) = 1 - 0.6 = 0.4$
 d) A and B are mutually exclusive if $P(X \in A \cap B) = 0$. To determine if A and B are mutually exclusive, solve the following for $P(X \in A \cap B)$:
 $P(X \in A \cup B) = P(X \in A) + P(X \in B) - P(X \in A \cap B)$
 $0.55 = 0.3 + 0.25 - P(X \in A \cap B)$
 $0.55 = 0.55 - P(X \in A \cap B)$ and $P(X \in A \cap B) = 0$.
 Therefore, A and B are mutually exclusive.
 e) B and C are mutually exclusive if $P(X \in B \cap C) = 0$. To determine if B and C are mutually exclusive, solve the following for $P(X \in B \cap C)$:
 $P(X \in B \cup C) = P(X \in B) + P(X \in C) - P(X \in B \cap C)$
 $0.70 = 0.25 + 0.60 - P(X \in B \cap C)$
 $0.70 = 0.85 - P(X \in B \cap C)$ and $P(X \in B \cap C) = 0.15$.
 Therefore, B and C are not mutually exclusive.
- 3-13. a) $P(X > 15) = 1 - P(X \leq 15) = 1 - 0.3 = 0.7$
 b) $P(X \leq 24) = P(X \leq 15) + P(15 < X \leq 24) = 0.3 + 0.6 = 0.9$
 c) $P(15 < X \leq 20) = P(X \leq 20) - P(X \leq 15) = 0.5 - 0.3 = 0.2$
 d) $P(X \leq 18) = P(15 < X \leq 18) + P(X \leq 15)$
 where $P(15 < X \leq 18) = P(15 < X \leq 24) - P(18 < X \leq 24) = 0.6 - 0.4 = 0.2$
 Therefore, $P(X \leq 18) = P(15 < X \leq 18) + P(X \leq 15) = 0.2 + 0.3 = 0.5$
 Alternatively, $P(X \leq 18) = P(X \leq 24) - P(18 < X \leq 24) = 0.9 - 0.4 = 0.5$.
- 3-14. A = Overfilled, B = Medium filled, C = Underfilled
 a) $P(X \in C^c) = 1 - P(X \in C) = 1 - 0.20 = 0.8$
 b) $P(X \in A \cup C) = P(X \in A) + P(X \in C) - P(X \in A \cap C) = 0.45 + 0.20 - 0 = 0.65$ ($P(X \in A \cap C) = 0$ since A and C are mutually exclusive)
- 3-15. a) $P(X \leq 8000) = 1 - P(X > 8000) = 1 - 0.45 = 0.55$
 b) $P(X > 6000) = 1 - P(X \leq 6000) = 1 - 0.05 = 0.95$
 c) $P(6000 < X \leq 8000) = P(X \leq 8000) - P(X \leq 6000) = 0.55 - 0.05 = 0.50$
- 3-16. a) Probability that a component does not fail: $P(E_1^c) = 1 - P(E_1) = 1 - 0.15 = 0.85$
 b) $P(E_1 \text{ or } E_2) = P(E_1) + P(E_2) = 0.15 + 0.30 = 0.45$

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Jiyuan Zhang



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web may 2 1978 this paper deals with the development of an approximate method for the analysis of thermal stresses in rectangular plates plane stress problem and an evaluation of the relative accuracy of the finite element method the stress function is expanded in terms of polynomial coordinate functions which identically satisfy the

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web may 1 2022 macroscopic analysis of thermal stresses in rectangular concrete beams the described mode of multiscale analysis is applied to rectangular concrete beams fig 5 subjected to heating at their top surfaces the height h

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web jun 23 2021 abstract the thermal stresses for the plane stress problem of a circular hot spot in an infinitely long straight strip of rectangular cross section are derived by a fourier integral approach the hot spot is located on the longitudinal center line of the strip and its radius is such that the boundary of the hot spot is tangent to both edges of the strip the