

Engineering Formula Sheet

Statistics

Mean

$$\mu = \frac{\sum x_i}{n}$$

μ = mean value
 $\sum x_i$ = sum of all data values (x_1, x_2, x_3, \dots)
 n = number of data values

Standard Deviation

$$\sigma = \sqrt{\frac{\sum (x_i - \mu)^2}{n}}$$

σ = standard deviation
 x_i = individual data value (x_1, x_2, x_3, \dots)
 μ = mean value
 n = number of data values

Probability

Frequency

$$f_x = \frac{n_x}{n}$$

$$P_x = \frac{f_x}{f_a}$$

f_x = relative frequency of outcome x
 n_x = number of events with outcome x
 n = total number of events
 P_x = probability of outcome x
 f_a = frequency of all events

Binomial Probability (order doesn't matter)

$$P_k = \frac{n! (p^k) (q^{n-k})}{k!(n-k)!}$$

P_k = binomial probability of k successes in n trials
 p = probability of a success
 $q = 1 - p$ = probability of failure
 k = number of successes
 n = number of trials

Mode

Place data in ascending order.
 Mode = most frequently occurring value

If two values occur at the maximum frequency the data set is *bimodal*.
 If three or more values occur at the maximum frequency the data set is *multi-modal*.

Median

Place data in ascending order.
 If n is odd, median = central value
 If n is even, median = mean of two central values

n = number of data values

Range

$$\text{Range} = x_{\max} - x_{\min}$$

x_{\max} = maximum data value
 x_{\min} = minimum data value

Independent Events

$$P(A \text{ and } B \text{ and } C) = P_A P_B P_C$$

$P(A \text{ and } B \text{ and } C)$ = probability of independent events A and B and C occurring in sequence
 P_A = probability of event A

Mutually Exclusive Events

$$P(A \text{ or } B) = P_A + P_B$$

$P(A \text{ or } B)$ = probability of either mutually exclusive event A or B occurring in a trial
 P_A = probability of event A
 $\sum x_i$ = sum of all data values (x_1, x_2, x_3, \dots)
 n = number of data values

Conditional Probability

$$P(A|D) = \frac{P(A) \cdot P(D|A)}{P(A) \cdot P(D|A) + P(\sim A) \cdot P(D|\sim A)}$$

$P(A|D)$ = probability of event A given event D
 $P(A)$ = probability of event A occurring
 $P(\sim A)$ = probability of event A not occurring
 $P(D|\sim A)$ = probability of event D given event A did not occur

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Table of Contents Structural Engineering Formula Sheet

1. Understanding the eBook Structural Engineering Formula Sheet
 - The Rise of Digital Reading Structural Engineering Formula Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Structural Engineering Formula Sheet
 - 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 Structural Engineering Formula Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Structural Engineering Formula Sheet
 - Personalized Recommendations
 - Structural Engineering Formula Sheet User Reviews and Ratings
 - Structural Engineering Formula Sheet and Bestseller Lists
5. Accessing Structural Engineering Formula Sheet Free and Paid eBooks

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