

**Logarithms**

$$\ln(ab) = \ln a + \ln b$$

$$\ln\left(\frac{a}{b}\right) = \ln a - \ln b$$

$$\ln a^n = n \ln a$$

$$\log_a b = \frac{\ln b}{\ln a}$$

**Binomial theorem**

$$(a + x)^n = a^n + na^{n-1}x + \frac{n(n-1)}{2!}a^{n-2}x^2 + \frac{n(n-1)(n-2)}{3!}a^{n-3}x^3 + \dots$$

**Trigonometric identities**

$$\sin^2 x + \cos^2 x = 1$$

$$\tan^2 x + 1 = \sec^2 x$$

$$1 + \cot^2 x = \operatorname{cosec}^2 x$$

$$\sin(x + y) = \sin x \cos y + \cos x \sin y$$

$$\sin(x - y) = \sin x \cos y - \cos x \sin y$$

$$\cos(x + y) = \cos x \cos y - \sin x \sin y$$

$$\cos(x - y) = \cos x \cos y + \sin x \sin y$$

$$\sin 2x = 2 \sin x \cos x$$

$$\cos 2x = \cos^2 x - \sin^2 x$$

**Circle sectors and segments**

$$s = r\theta$$

$$A_{\text{st}} = \frac{1}{2}rs = \frac{1}{2}r^2\theta$$

$$A_{\text{sm}} = \frac{1}{2}r^2(\theta - \sin \theta)$$

**General sine equations**

$$y = A \sin(\omega t - \alpha)$$

$$y = A \sin 2\pi \left( \frac{t}{T} - \frac{x}{\lambda} \right)$$

**Matrix inverse**

$$A^{-1} = \frac{\text{Adjoint}(A)}{|A|}$$

**Differentiation rules**

$$\frac{d}{dx} (f(x)g(x)) = f'(x)g(x) + f(x)g'(x)$$

$$\frac{d}{dx} \left( \frac{f(x)}{g(x)} \right) = \frac{f'(x)g(x) - f(x)g'(x)}{(g(x))^2}$$

$$\frac{d}{dx} f(g(x)) = f'(g(x))g'(x)$$

$$\frac{dy}{dx} = \frac{dy}{du} \frac{du}{dx}$$

**Newton-Raphson iteration**

$$x_1 = x_0 - \frac{f(x_0)}{f'(x_0)}$$

**Parametric differentiation**

$$\frac{dy}{dx} = \frac{dy}{dt} \frac{dt}{dx}$$

$$\frac{d^2y}{dx^2} = \left[ \frac{d}{dt} \left( \frac{dy}{dx} \right) \right] \frac{dt}{dx}$$

**Areas and volumes**

$$A = \int y dx \quad \text{and} \quad V = \pi \int y^2 dx$$

**Integration by parts**

$$\int u dv = uv - \int v du$$

$$\int u v' dx = uv - \int u' v dx$$

**Partial fractions**

$$\frac{\dots}{(x+1)(x-3)} = \frac{A}{x+1} + \frac{B}{x-3}$$

$$\frac{\dots}{(x+1)^3} = \frac{A}{x+1} + \frac{B}{(x+1)^2} + \frac{C}{(x+1)^3}$$

$$\frac{\dots}{(x^2+1)(x^2+3)} = \frac{Ax+B}{x^2+1} + \frac{Cx+D}{x^2+3}$$

**Hyperbolic functions**

$$\sinh x = \frac{1}{2} (e^x - e^{-x})$$

$$\cosh x = \frac{1}{2} (e^x + e^{-x})$$

# Mechanical Engineering Formulae

**M Lipman**



## **Mechanical Engineering Formulae:**

This book delves into Mechanical Engineering Formulae. Mechanical Engineering Formulae is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Mechanical Engineering Formulae, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Mechanical Engineering Formulae
    - Chapter 2: Essential Elements of Mechanical Engineering Formulae
    - Chapter 3: Mechanical Engineering Formulae in Everyday Life
    - Chapter 4: Mechanical Engineering Formulae in Specific Contexts
    - Chapter 5: Conclusion
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  3. In chapter 2, the author will delve into the foundational concepts of Mechanical Engineering Formulae. The second chapter will elucidate the essential principles that need to be understood to grasp Mechanical Engineering Formulae in its entirety.
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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Mechanical Engineering Formulae.

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