Mechanical Engineering CPUT 2005

Formulae for Mathematics 1 and 2

Logarithms

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

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

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

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

Binomial theorem

$(a + x)^n = a^n + n a^{n-1} x + \dfrac{n(n-1)}{2!} a^{n-2} x^2$
$\qquad + \dfrac{n(n-1)(n-2)}{3!} a^{n-3} x^3 + \ldots$

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

$s = r\theta$

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

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

General sine equations

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

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

Matrix inverse

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

Differentiation rules

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

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

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

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

Newton-Raphson iteration

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

Parametric differentiation

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

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

Areas and volumes

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

Integration by parts

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

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

Partial fractions

$\dfrac{\ldots}{(x+1)(x-3)} = \dfrac{A}{x+1} + \dfrac{B}{x-3}$

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

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

Hyperbolic functions

$\sinh x = \dfrac{1}{2}\left(e^x - e^{-x}\right)$

$\cosh x = \dfrac{1}{2}\left(e^x + e^{-x}\right)$

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Babu Ram

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Table of Contents Engineering Mathematics 1 Uptu

1. Understanding the eBook Engineering Mathematics 1 Uptu
    - The Rise of Digital Reading Engineering Mathematics 1 Uptu
    - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mathematics 1 Uptu
    - 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 Engineering Mathematics 1 Uptu
    - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mathematics 1 Uptu
    - Personalized Recommendations
    - Engineering Mathematics 1 Uptu User Reviews and Ratings
    - Engineering Mathematics 1 Uptu and Bestseller Lists

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