

Engineering Maths 1a Formula Sheet

Laws of Logarithms:

$$\log_a(x) = \frac{\log_b(x)}{\log_b(a)} \quad a \log_x(b) = \log(b^a) \quad \log_x(ab) = \log_x(a) + \log_x(b)$$

$$e^{x \ln a} = a^x \quad \log_x\left(\frac{a}{b}\right) = \log_x(a) - \log_x(b)$$

Trigonometric Identities:

$$\sin(A \pm B) = \sin A \cos B \pm \sin B \cos A \quad \cos(A \pm B) = \cos A \cos B \mp \sin B \sin A$$

$$\tan(A \pm B) = \frac{\tan A \pm \tan B}{1 \mp \tan A \tan B}$$

$$\cos 2A = \cos^2 A - \sin^2 A \quad \cos 2A = 1 - 2 \sin^2 A \quad \cos 2A = 2 \cos^2 A - 1$$

$$\cos^2 x + \sin^2 x = 1 \quad 1 + \tan^2 x = \sec^2 x \quad \cot^2 x - 1 = \csc^2 x$$

Hyperbolic Functions:

$$\sinh x = \frac{e^x - e^{-x}}{2} \quad \cosh x = \frac{e^x + e^{-x}}{2} \quad \tanh x = \frac{e^{2x} - 1}{e^{2x} + 1}$$

$$\operatorname{arcsinh} x = \ln\left(x + \sqrt{x^2 + 1}\right) \quad \operatorname{arccosh} x = \ln\left(x + \sqrt{x^2 - 1}\right) \quad (x \geq 1)$$

$$\operatorname{arctanh} x = \frac{1}{2} \ln\left(\frac{1+x}{1-x}\right) \quad (|x| < 1)$$

Hyperbolic Identities:

$$\sinh(A \pm B) = \sinh A \cosh B \pm \sinh B \cosh A \quad \cosh(A \pm B) = \cosh A \cosh B \pm \sinh B \sinh A$$

$$\tanh(A \pm B) = \frac{\tanh A \pm \tanh B}{1 \pm \tanh A \tanh B}$$

$$\cosh 2x = \cosh^2 x + \sinh^2 x \quad \cosh 2x = 2 \cosh^2 x - 1 \quad \cosh 2x = 2 \sinh^2 x + 1$$

$$\cosh^2 x - \sinh^2 x = 1 \quad 1 - \tanh^2 x = \operatorname{sech}^2 x \quad \coth^2 x - 1 = \operatorname{csch}^2 x$$

Engineering Mathematics 1a

Yijin Wang



Engineering Mathematics 1a :

The Enigmatic Realm of **Engineering Mathematics 1a** : Unleashing the Language is Inner Magic

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