

Unit Conversions

1 Kilo	$1 \cdot 10^3$ Units
1 Centi	$1 \cdot 10^{-2}$ Units
1 Milli	$1 \cdot 10^{-3}$ Unites
1 Micro	$1 \cdot 10^{-6}$ Units
1 Nano	$1 \cdot 10^{-9}$ Units

Waves

$V_{\text{String}} = \sqrt{T/\mu}$	$V_s = 343 \text{ m/s}$	$T = 1/f$
$V = F \cdot \lambda$	$c = 3 \cdot 10^8 \text{ m/s}$	$Y(x,t) = A \cos(2\pi * [x/\lambda +/- t/T])$

Doppler

$$F_{\text{observer}} = f_s * ((V +/- V_o) / (V +/- V_s))$$



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Not published yet.

Last updated 14th October, 2024.

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