
SI Derived Units

Many important units, some with special names and symbols, can be derived from the SI base units:

Derived quantity	Name	Symbol
volume	cubic meter	m^3
speed, velocity	meter per second	m/s
acceleration	m. per s. squared	m/s^2 or m s^{-2}
wave number	reciprocal meter	m^{-1}
mass density	kg per cubic m	kg/m^3 or kg m^{-3}
frequency	hertz	$\text{Hz} : \text{s}^{-1}$
force	newton	$\text{N} : \text{kg}\cdot\text{m}\cdot\text{s}^{-2}$
pressure, stress	pascal	$\text{Pa} : \text{N/m}^2 : \text{kg}\cdot\text{m}^{-1}\cdot\text{s}^{-2}$
energy, work, heat	joule	$\text{J} : \text{N}\cdot\text{m} : \text{kg}\cdot\text{m}^2\cdot\text{s}^{-2}$
power, radiant flux	watt	$\text{W} : \text{J/s} : \text{kg}\cdot\text{m}^2\cdot\text{s}^{-3}$
electric charge	coulomb	$\text{C} : \text{A}\cdot\text{s}$
electric potential, emf	volt	$\text{V} : \text{W/A} : \text{kg}\cdot\text{m}^2\cdot\text{s}^{-3}\cdot\text{A}^{-1}$