

9.1.4.3: SI Units

SI Base Units

Quantity	Unit	Sym.
Length	metre	m
Mass	kilogram	kg
Time	second	s
Therm. temp.	kelvin	K
Electr. current	ampere	A
Luminous intens.	candela	cd
Amount of subst.	mol	mol
Plane angle	radian	rad
solid angle	sterradian	sr

SI Derivative Units

Quantity	Unit	Sym.	Derivation
Frequency	hertz	Hz	s^{-1}
Force	newton	N	$kg \cdot m \cdot s^{-2}$
Pressure	pascal	Pa	$N \cdot m^{-2}$
Energy	joule	J	$N \cdot m$
Power	watt	W	$J \cdot s^{-1}$
Charge	coulomb	C	$A \cdot s$
El. Potential	volt	V	$W \cdot A^{-1}$
El. Capacitance	farad	F	$C \cdot V^{-1}$
El. Resistance	ohm	Ω	$V \cdot A^{-1}$
El. Conductance	siemens	S	$A \cdot V^{-1}$
Mag. flux	weber	Wb	$V \cdot s$
Mag. flux density	tesla	T	$Wb \cdot m^{-2}$

Inductance	henry	H	$\text{Wb} \cdot \text{A}^{-1}$
Luminous flux	lumen	lm	$\text{cd} \cdot \text{sr}$
Illuminance	lux	lx	$\text{lm} \cdot \text{m}^{-2}$
Activity	becquerel	Bq	s^{-1}
Absorbed dose	gray	Gy	$\text{J} \cdot \text{kg}^{-1}$
Dose equivalent	sievert	Sv	$\text{J} \cdot \text{kg}^{-1}$

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