INTERNATIONAL SYSTEM OF UNITS (SI)

SI Basic and Supplementary Units

Name	Symbol	Physical Quantity
SI BASE UNITS		
meter	m	length
kilogram	kg	mass
second	s	time
ampere	A	electric current
kelvin	K	thermodynamic temperature
mole	mol	amount of substance
candela	cd	luminous intensity
SI SUPPLEMENTARY UNITS		
radian	rad	plane angle
steradian	sr	solid angle

SI Derived Units with Special Names

Formula	Symbol	Name	Physical Quantity
$kg \cdot m/s^2$	N	Newton	force
N/m^2	Pa	Pascal	pressure or stress
$N \cdot m$	J	Joule	work, energy, or quantity of heat
J/s	W	watt	power or radiant energy flux
W/A	V	volt	electric potential, potential difference or electromotive force
A/V	S	siemens	electric conductance
V/A	Ω	ohm	electric resistance
$A \cdot s$	C	Coulomb	quantity of electricity or electric charge
C/V	F	Farad	electric capacitance
$V \cdot s$	Wb	Weber	magnetic flux
Wb/A	H	Henry	inductance
Wb/m^2	T	Tesla	magnetic flux density or magnetic induction
$cd \cdot sr$	lm	lumen	luminous flux
lm/m^2	lx	lux	illuminance
J/kg	Gy	gray	absorbed dose (of ionizing radiation)
1 (disintegrations)/s	Bq	Becquerel	activity (of a radionuclide)
1 (cycle)/s	Hz	hertz	frequency (of a periodic phenomenon)
$K - 273$	°C	degree Celsius	temperature

SI Prefixes

Factor	Prefix	Symbol	Factor	Prefix	Symbol
10^{-24}	yocto	y	10	deca	da
10^{-21}	zepto	z	10^2	hecto	h
10^{-18}	atto	a	10^3	kilo	k
10^{-15}	femto	f	10^6	mega	M
10^{-12}	pico	p	10^9	giga	G
10^{-9}	nano	n	10^{12}	tera	T
10^{-6}	micro	μ	10^{15}	peta	P
10^{-3}	milli	m	10^{18}	exa	E
10^{-2}	centi	c	10^{21}	zetta	Z
10^{-1}	deci	d	10^{24}	yotta	Y