

Appendix 5: Units

MKS Units

Parameter	Symbol	Unit	Symbol	MKSA unit
Ampere	A	Current	I	Fundamental MKSA unit
Coulomb	C	Charge	Q	Ampere second
Farad	F	Capacitance	C	Coulomb Volt ⁻¹ = Joule Volt ⁻²
Henry	H	Inductance	L	Weber Ampere ⁻¹ = Tesla meter ² Ampere ⁻¹
Joule	J	Energy	E	Newton meter = kilogram meter ² second ⁻²
Kelvin	K	Temperature	T	Fundamental MKSA unit
kilogram	kg	Mass	m	Fundamental MKSA unit
meter	m	length	l	Fundamental MKSA unit
Newton	N	Force	F	kilogram meter second ⁻²
Ohm	Ω	Resistance	R	Volt Ampere ⁻¹ = Volt ² Joule ⁻¹ second ⁻¹
Pascal	P	Pressure	p	Newton meter ⁻²
second	s	Time	t	Fundamental MKSA unit
Siemens	S	conductance	s	Ampere Volt ⁻¹ = Joule second Volt ⁻²
Tesla	T	Magnetic field	B	Newton Ampere ⁻¹ meter ⁻¹ = Joule Ampere ⁻¹ meter ⁻² = Volt second meter ⁻²
Volt	V	Potential	f	Joule coulomb ⁻¹
Watt	W	Power	P	Ampere Volt = Joule second ⁻¹
Weber	Wb	Magnetic flux	Φ	Tesla meter ² = Volt second

non-MKS Units

Name	Symbol	Unit	Symbol	MKSA unit
Electron Volt	eV	Energy	E	1.602×10^{-19} Joule
Moles/liter	Mol	Concentration		6.022×10^{20} cm ⁻³