

Quantity	Dimensions	Quantity	Dimensions
Acceleration	LT^{-2}	Enthalpy	ML^2T^{-2}
Angle	1	Entropy	$ML^2T^{-2}\theta^{-1}$
Angular Acceleration	T^{-2}	Gas Constant	$ML^2T^{-2}\theta^{-1}$
Angular Momentum	ML^2T^{-1}	Internal Energy	ML^2T^{-2}
Angular Velocity	T^{-1}	Specific Heat	$L^2T^{-2}\theta^{-1}$
Area	L^2	Temperature	θ
Energy, Work	ML^2T^{-2}	Thermal Conductivity	$MLT^{-3}\theta^{-1}$
Force	MLT^{-2}	Thermal Diffusivity	L^2T^{-1}
Frequency	T^{-1}	Heat Transfer Coefficient	$MT^{-3}\theta^{-1}$
Concentration	L^{-3}		
Length	L	Capacitance	$M^{-1}L^{-2}T^4I^2$
Mass	M	Charge	TI
Mass Density	ML^{-3}	Charge Density	$L^{-3}TI$
Momentum	MLT^{-1}	Electrical Conductivity	$M^{-1}L^{-3}T^3I^2$
Power	ML^2T^{-3}	Admittance	$L^{-2}M^{-1}T^3I^2$
Pressure, Stress, Elastic Modulus	$ML^{-1}T^{-2}$	Electric Potential, Voltage	$ML^2T^{-3}I^{-1}$
Surface Tension	MT^{-2}	Current density	$L^{-2}I$
Time	T	Electric Current	I
Torque	ML^2T^{-2}	Electric Field Intensity	$MLT^{-3}I^{-1}$
Velocity	LT^{-1}	Inductance	$ML^2T^{-2}I^{-2}$
Viscosity (Dynamic)	$ML^{-1}T^{-1}$	Magnetic Intensity	$L^{-1}I$
Viscosity (Kinematic)	L^2T^{-1}	Magnetic Flux Density	$MT^{-2}I^{-1}$
Volume	L^3	Magnetic Permeability	$MLT^{-2}I^{-2}$
Wave Length	L	Electric Permittivity	$M^{-1}L^{-3}T^4I^2$
Strain	1	Electric Resistance	$ML^2T^{-3}I^{-2}$

Table 1.1: Fundamental dimensions for commonly occurring quantities. A quantity with a one in the dimensions column is dimensionless.