

Useful constants:

Astronomical

radius of earth	$6.378 \times 10^6 \text{ m}$
astronomical unit	$1.496 \times 10^{11} \text{ m}$
Mass of earth	$5.972 \times 10^{24} \text{ kg}$
Radius of Sun	$6.96 \times 10^8 \text{ m}$
Mass of Sun	$1.989 \times 10^{30} \text{ kg}$
Temperature of Sun	5780K
Luminosity of Sun	$3.85 \times 10^{26} \text{ W}$
parsec	$3.08 \times 10^{16} \text{ m} = 3.26 \text{ light years} = 206265 \text{ AU}$
1Jy	$10^{-26} \text{ W m}^{-2} \text{ Hz}^{-1}$

Physical

Speed of light c_0	$2.998 \times 10^8 \text{ m/s}$
gravitational G	$6.674 \times 10^{-11} \text{ m}^3 \text{ kg}^{-1} \text{ s}^{-2}$
Planck constant h	$6.626 \times 10^{-34} \text{ Js}$
Boltzmann constant k	$1.38 \times 10^{-23} \text{ J/K}$
Stefan-Boltzmann constant σ	$5.67 \times 10^{-8} \text{ W m}^{-2} \text{ K}^{-4}$
Electron charge	$1.602 \times 10^{-19} \text{ C}$
Electron mass	$9.109 \times 10^{-31} \text{ kg}$
Proton mass	$1.67 \times 10^{-27} \text{ kg}$
1eV	$1.602 \times 10^{-19} \text{ J}$
Thomson cross section σ_T	$6.65 \times 10^{-29} \text{ m}^2$
vacuum permittivity ϵ_0	$8.854 \times 10^{-12} \text{ F/m}$ (alias $\text{A}^2 \text{s}^4 \text{kg}^{-1}$ alias $\text{C}^2 \text{N}^{-1} \text{m}^{-2}$ alias C/V/m)
vacuum permeability μ_0	$4\pi \times 10^{-7} \text{ N/A}^2$ (alias Tm/A)

Conversion

1m	= 100 cm
1J	= 10^7 erg
1W	= 10^7 erg/s
Newton	= 10^5 dyne
1kg	= 1000 gram
1T	= 10^4 gauss