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## CONSTANTS

From	To	Factor
Acceleration Of Gravity	Ft/Sec <sup>2</sup>	32.174
	Cm/Sec <sup>2</sup>	980.665
	In/Sec <sup>2</sup>	386.09
	Miles/Hr-Sec	21.94
Air Density At STP	Grams/Liter	1.2929
Amu	Kilograms	1.6605 /10 <sup>27</sup>
Astronomic Unit (AU)	Kilometers	1.49669 x10 <sup>8</sup>
Atomic Mass, Unified	Kilograms	1.66043 /10 <sup>27</sup>
Atomic Specific Heat	Sec Deg	4.79928 /10 <sup>11</sup>
Avogadro Number (N<A>)	1/Mol	6.02252 x10 <sup>23</sup>
Barn Cross Section	Cm <sup>2</sup>	1. /10 <sup>23</sup>
Bohr Magneton (μ<B>)	Am <sup>2</sup>	9.2732 /10 <sup>24</sup>
Bohr Radius (A<O>)	Centimeters	5.29177 /10 <sup>9</sup>
Boltzmann Entropy (k)	J/K	1.38054 /10 <sup>23</sup>
Earth, Equatorial Radius	Kilometers	6378.39
	Miles (Statute)	3963.34
Earth, Polar Radius	Kilometers	6.35691
	Miles (Statute)	3949.99
Earth, Mass (M)	Kilograms	5.983 x10 <sup>24</sup>
	Tons	6.595 x10 <sup>21</sup>
Earth, Mean Density	Lbs/Cu Ft	344.7
Electric Field (□<O>)	F/M [Equation: 1/μOc <sup>2</sup> ]	8.854185 /10 <sup>9</sup>
Electron, Atomic Mass	Amu	5.48598 /10 <sup>4</sup>
Electron Charge/Mass	C/Kg	1.758796 /10 <sup>11</sup>
Electron Radius (□<e>)	Meters	2.81777 /10 <sup>15</sup>
Electron Magnetic Moment	Erg/Gauss	9.28389 /10 <sup>21</sup>
Electron Mass At Rest	Kilograms	9.1091 /10 <sup>31</sup>
Electron-Compton	Wavelen Meters	2.42621 /10 <sup>12</sup>
Electron-Volt (Ev)	Joules	1.60210 /10 <sup>19</sup>
Euler's Constant (□)	[0.5772156649015338 6] 0.577215	
Faraday Constant (F)	C/Mol	9.64870 x10 <sup>4</sup>
Gas Constant, Univ (R)	J/°K-Mol	8.3143
	(Ro) Lit-Atm/°K-Mol	8.20545 /10 <sup>2</sup>
	(R) Lb-Ft/Lb Mol-°R	1546
Golden Ratio (□)	[1.6180339887498948 5]	1.618033
Gravitational (G)	Nm <sup>2</sup> /Kg <sup>2</sup>	6.670 /10 <sup>11</sup>
Hydrogen, Atomic Mass	Amu	1.007825
Hydrogen Atom, Mass	Gram	1.67339 /10 <sup>24</sup>
Ice-Point Temperature	°K	2.731500 x10 <sup>2</sup>
Impedance Of Free Space	Ohms	376.731
Light, Speed In A Vacuum	Cm/Second	2.997925 x10 <sup>10</sup>

<b>From</b>	<b>To</b>	<b>Factor</b>
Logarithmic Constant (E)	[2.7182818284590452 3]	2.718281
Loschmidt Number (N<O>)	1/Cubic Centimeters	2.68702 x10 <sup>19</sup>
Magnetic Field (μO)	H/M	[equation: 4 □ /10 <sup>7</sup> ] 1.256637 /10 <sup>6</sup>
Mercury, Density	Gm/Cubic Cm (@ 0°C)	13.5955
Neutron Rest Mass (M<N>)	Kilograms	1.67482 /10 <sup>27</sup>
Parsec (Pc)	Au	206.265
Permeability: Free Space	Henry/Meter	1.25664 /10 <sup>6</sup>
Permittivity: Free Space	Farad/Meter	8.8542 /10 <sup>12</sup>
Pi, Factors Of (π)	[3.1415926535897932 38]	
π		3.141593
(π/2)		1.570796
(π/3)		1.047198
(π/4)	[0.7853981633974483 09]	0.785398
(1/π)	[0.3183098861837906 71]	0.318310
(π <sup>2</sup> )		9.869604
( <sup>n</sup> √π)		1.772454
Planck Constant (h)	Joules	6.6256 /10 <sup>34</sup>
	Erg-Sec	6.6252 /10 <sup>27</sup>
1st Radiation Constant	Erg Cm <sup>2</sup> /S	3.7418 /10 <sup>5</sup>
2nd Radiation Constant	Cm K	1.4388
Proton, Atomic Mass	Amu	1.007276
Proton Rest Mass	Kilogram	1.67252 /10 <sup>27</sup>
Proton, Compton	Wavelen M	1.32140 /10 <sup>15</sup>
Quantum Charge Ratio	Js/C	4.13556 x10 <sup>15</sup>
Radiation Constant, 1st	Erg-Cm	4.99208 /10 <sup>15</sup>
Radiation Constant, 2nd	Cm-Deg	1.43879
Rydberg, Infinite Mass	1/m	1.097373 x10 <sup>7</sup>
Sound Velocity-Air	M/Sec (@ STP)	331.7
	Ft/Sec	1087.1
Sound Velocity-Water	M/Sec (@ 20°C)	1470
	Ft/Sec	4823
Sefan-Boltzmann (□)	Erg/Cm <sup>2</sup> -Sec-(°K){4}	5.6686 /10 <sup>5</sup>
Vacuum Permeability (μO)	Kgms <sup>-2</sup> A <sup>-2</sup>	1.256637 /10 <sup>6</sup>
Water, Density	Gm/MI (@ 3.98°C)	1.000000
	Lb/Cu In	0.03613
	Lb/Cu Ft	62.43
Water, Heat Of Fusion	Cal/Gm (@ 0°C)	79.71
Water, Heat Of Vaporiz.	Cal/Gm (@ 100°C)	539.55
Water, Viscosity	Centipoise (@ 20°C)	1.002
	Dyne-Sec/Cm <sup>2</sup>	0.01002
Wavelength, Krypton 86	Å (Orange-Red Line)	6057.802

<b>From</b>	<b>To</b>	<b>Factor</b>
Wien Displacement (Maxt)	Cm °K	0.289779
Zeeman Displacement	1/Cm-Gauss	4.668583 /10 <sup>5</sup>

Please mail, phone, FAX or email your comments to:

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