Factores de conversión

Longitud

1 metro (m) = 39.37 in = 3.281 ft = 6.214×10^{-4} mi = 10^{10} Å = 10^{15} fermis
1 in = 0.02540000 m
1 ft = 0.3048 m
1 mi = 1609 m
1 milla náutica = 1852 m = 1.1508 mi = 6076.10 ft
1 angstrom (Å) = 10^{-10} m
1 mil = 10^{-3} in
1 rod = 16.5 ft; 1 braza = 6 ft

Área

1 m^2 = 10.76 ft^2 = 1550 in^2
1 hectárea = 10^4 m^2 = 2.471 acres
1 ft^2 = 929 cm^2
1 in^2 = 6.452 cm^2 = 1.273×10^6 circular mils
1 acre = 43.560 ft^2

Volumen

1 m^3 = 35.31 ft^3 = 6.102×10^4 in^3
1 ft^3 = 0.02832 m^3
1 galón (US) = 231 in^3 = 3.79 litros
1 litro = 1.000028×10^{-3} m^3 = 61.02 in^3 = 0.26 galón (US)

Tiempo

1 año = 365.2422 días = 8.766×10^3 h $\times 5.259 \times 10^5$ min = 3.156×10^7 s
1 día sideral (periodo de revolución de la Tierra) = 86,164 s

Frecuencia

1 hertz (Hz) = 1 ciclo/s

Velocidad

1 m/s = 3.281 ft/s = 3.6 km/h = 2.237 mi/h = 1.944 nudos
1 km/h = 0.2778 m/s = 0.9113 ft/s = 0.6214 mi/h
1 mi/h = 1.467 ft/s = 1.609 km/h = 0.8689 nudo

Masa

1 kg = 2.205 lb_m = 0.06852 slug
1 lb_m = 0.4536 kg = 0.03108 slug
1 slug = 32.17 lb_m = 14.59 kg

Densidad

1 g/cm^3 = 1000 kg/m^3 = 62.43 lb_m/ft^3 = 1.940 $slug/ft^3$
1 lb_m/ft^3 = 0.03108 $slug/ft^3$ = 16.02 kg/m^3 = 0.01602 g/cm^3

Fuerza

1 newton (N) = 10^5 dinas = 0.1020 kg n = 0.2248 lb
1 lb (fuerza) = 4.448 N = 0.4536 kg n = 32.17 poundals

Presión

1 N/m^2 = 9.869×10^{-6} atm = 1.450×10^{-4} lb/in^2 = 0.02089 lb/ft^2
    = 7.501×10^{-4} cmHg = 4.015×10^{-3} in de agua = 10^{-5} bar
1 lb/in^2 = 144 lb/ft^2 = 6895 N/m^2 = 5.171 cmHg = 27.68 in de agua
1 atm = 406.8 in de agua = 76 cmHg = 1.013×10^5 N/m^2 = 10,330 kg wt/m^2
    = 2116 lb/ft^2 = 14.70 lb/in^2 = 760 torr

Trabajo
Energía y calor

1 joule (J) = 0.2389 cal = 9.481×10^{-4} Btu = 0.7376 ft · lb = 10^7 ergs = 6.242×10^{18} eV
1 kcal = 4186 joules = 3.968 Btu = 3087 ft · lb
1 eV = 1.602×10^{-19} joule; 1 uma = 931.48 MeV
1 kW · h = 3.6×10^6 joules = 3413 Btu = 860.1 kcal = 1.341 hp · h

Potencia

1 hp = 2545 Btu/h = 550 ft · lb/s = 745.7 watts = 0.1782 kcal/s
1 watt (W) = 2.389×10^{-4} kcal/s = 1.341×10^{-3} hp = 0.7376 ft · lb/s

Carga eléctrica

1 faraday = 96.487 coulombs
1 carga de electrón = 1.602×10^{-19} coulomb

Flujo magnético

1 weber (Wb) = 10^8 maxwells

Intensidad magnética

1 tesla (T) = 1 newton/amp · m = 1 weber/m^2 = 10,000 gauss