

ภาคผนวก ข.

CONVERSION FACTORS

Length	cm	= 0.3937 in = $10^4 \mu\text{m}$ = 10^8 \AA
	in	= 2.540 cm
	ft	= 0.3048 m
Mass	1 lbm	= 0.453 592 37 kg
	slug	= 32.174 lbm
Force	1 N	= 10^5 dyn
	lbf	= 444 822 dyn = 4.44822 N
	1 kgf	= 4.806 65 N
Pressure		= 1 .0 kilopond
	Pa	= 1 N/m^2
	lbf/in ²	= 2.036 in Hg at 32°F = 6894.76 Pa
	inHg	= 33 X64 dyn/cm ² = 0.0334 atm
		= 0.49 1 lbf/in ²
	atm	= 14.695 95 lbf/in ² = 760 mmHg at 32°F
Volume		= 29.92 inHg at 32°F = 2116.21 lbf/ft ²
		= 1.013 25 x 10 ⁵ Pa
	kgf/cm ²	= 9.806 65 x 10 ⁴ Pa
	bar	= 10^5 N/m^2 = 0.986 92 atm
	liter	= 0.2642 gal = 0.0353 ft ³ = 61.03 in ³
	gal	= 231 in ³
Energy	ft ³	= 28.3168 liters = 7.4085 gal = 0.028 316 8 m ³
	in ³	= 16.387 cm ³
	Btu	= 778.16 ft lbf = 252.16 cal = 1055.04 J
	1 ft lbf	= 13558 J
	erg	= 1 dyn cm
	1 J	= 1 N m = 10^7 ergs
Power	cal	= 4.1854 J (thermochemical)
	1 W	= 1 J/s = 3600 cal/h = 3.413 Btu/h
	1 hp	= 746 W (electric) = 550 ft lbf/s (mechanical)
'Temperature		= 2545 Btu/h
	°F	= 1.8°C + 32
	°R	= °F + 459.67
	K	= °C + 273.15
Miscellaneous	°R	= 1.8 K
	Btu/lbm °F	= 4186.8 J/kg °C
	1 Btu/lbm	= 0.5559 cal/g
		= 2326 J/kg
	ft ³ /lbm	= 0.062 427 m ³ /kg
