# Mathematical Tools of the Trade



1 psi. = 6,894.7573 Pa (Pascal) 1 hp = 550 ft • lb/sec = 745.6999 Watts

$000,000,000,000,000,000 = 10^{24}$	yotta	Y
$00,000,000,000,000,000 = 10^{21}$	zetta	Ζ
$000,000,000,000,000 = 10^{18}$	exa	Е
$00,000,000,000,000 = 10^{15}$	peta	Р
$.000,000,000,000 = 10^{12}$	tera	Т
$1,000,000,000 = 10^{\circ}$	giga	G
$1,000,000 = 10^{\circ}$	mega	Μ
$1,000 = 10^3$	kilo	k
$100 = 10^2$	hecto	h
$0.01 = 10^{-2}$	centi	С
$0.001 = 10^{-3}$	milli	m
$0.000001 = 10^{-6}$	micro	μ
$0.000000001 = 10^{-9}$	nano	n
$.000000000001 = 10^{-12}$	pico	р
$0000000000001 = 10^{-15}$	femto	f
000000000000000000000000000000000000	atto	а
0000000000000001 = 10-21	zepto	Z
000000000000000000000000000000000000	yocto	У

 $AF = 20 * Log (MHz) - Gain_{dBi} - 29.79$ 

 $Spot_{meters} = 2 * Distance_{meters} \tan \left| \frac{Angle_{3dB}}{2} \right|$ 

