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 $d = d_00$ Energy: Work $W = \text{work}$
 $F = \text{force}$
 $d = \text{distance}$
Fluid Mechanics
 $1 T \square L$ Power (Guy-L $\square L P 1 V 1 = P 2 V 2 B y \square L Q = Av A 1 v 1 = A 2 v 2 + V$
absolute pressure = gauge pressure + atmospheric pressure
 $P = \text{absolute pressure}$
Force
 $A = \text{Area}$
 $V = \text{volume}$
 $T T = \text{absolute temperature}$
 $Q = \text{flow rate}$

Engineering Formula Sheet

This last result is a special case of the more general formula, $N \square 1 n(n+1)(n+2) \dots (n+r) = N($
 $+1)(+2) \dots (N+r)(N+r+1) r+2$. Plane wave expansion $\exp(ikz) = \exp(ikr \cos \theta) = \sum_{l=0}^{\infty} (2l+1) i^l$
 $j_l(kr) P_l(\cos \theta)$, where $P_l(\cos \theta)$ are Legendre polynomials (see section 11) and $j_l(kr)$ are spherical
Bessel functions, denoted by $j_l(\theta) = r \square 2 \square J_{l+1/2}$

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