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PLTW, Inc. Engineering Formulas $T = \frac{F}{\eta}$ Efficiency $d = d_0$ Energy: Work $W = F \cdot d$ Force $F = \frac{W}{d}$ distance Fluid Mechanics 1 $T = \frac{L}{V}$ Power (Guy-L) $P_1 V_1 = P_2 V_2$ $B \cdot y' = L \cdot Q = A \cdot v$ $A_1 v_1 = A_2 v_2 + V$ absolute pressure = gauge pressure + atmospheric pressure $P =$ absolute pressure Force $A =$ Area $V =$ volume $T =$ absolute temperature $Q =$ flow rate

Engineering Formula Sheet

This last result is a special case of the more general formula, $N \sum_{n=1}^N n(n+1)(n+2) \dots (n+r) = N(N+1)(N+2) \dots (N+r)(N+r+1) \dots (N+r+2)$. 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 $j_l(\rho) = r^{-1/2} J_{l+1/2}(\rho)$

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