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Energy: Work $W =$

work $F =$ force $d =$

distance Fluid

Mechanics $1 T ' L$

Power (Guy-L ' L P 1

$V 1 = P 2 V 2 B y ' L Q$

$= A v A 1 v 1 = A 2 v 2$

+ V absolute pressure =

gauge pressure +

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atmospheric pressure P

= absolute pressure

Force A = Area V =

volume T T = absolute

temperature Q = flow

rate

Engineering Formula Sheet

This last result is a
special case of the more
general formula, $N ? 1$

$n(n + 1)(n + 2) \dots (n + r) =$

$N(+ 1)(+ 2) \dots (N + r)(N$

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$(r+1) r+2$. Plane wave expansion $\exp(ikz) = \sum_{l=0}^{\infty} (2l+1) i^l j_l(kr) P_l(\cos \theta)$, where $P_l(\cos \theta)$ are Legendre polynomials (see section 11) and $j_l(kr)$ are spherical Bessel functions, dened by $j_l(\hat{r}) = r^{-1/2} J_{l+1/2}(r)$

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