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P. k= binomial probability of k successes in n trials p = probability of a success -p = probability of failure k = number of successes n = number of trials. Independent Events. P (A and B and C) = P. A. P. B. P. C.

Engineering Formula Sheet

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

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undergraduate students in an engineering program but also as a guide to self-study. It can also be used as a reference after students have completed learning the subject. Wei-Chau Xie is a Professor in the Department of Civil and Environmental Engineering and the Department of Applied Mathematics at the University of Waterloo. He is the

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