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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. $P(A \text{ and } B$

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and C) = P. A. P. B. P. C.

Engineering Formula Sheet

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

Mathematical Formula Handbook -

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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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