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Engineering Formula Sheet

This last result is a special case of the more general formula, $N \sum_{l=0}^N n(n+1)(n+2) \dots (n+r) = N(n+1)(n+2) \dots (N+r)(N+r+1) \dots r+2$. 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, denoted by $j_l(\rho) = r^{-1/2} J_{l+1/2}(\rho)$.

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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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