Abstracts

Useful Bessel Function Identities and Integrals (Short Papers)

A number of previously unpublished Bessel function identities and indefinite integrals are listed. These are useful in solving electromagnetic problems in cylindrical coordinates, including energy and power calculations, and mode orthogonalization in Iossy media. Using these integrals in conjunction with two previously published indefinite Bessel function integrals, two orthogonality integrals are derived. Values of the indefinite integrals at limits of zero and infinity are also given.

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