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Spheroidal Wave Functions in Electromagnetic Theory

Le-Wei Li, Xiao-Kang Kang, Mook-Seng Leong

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The flagship monograph addressing the spheroidal wave function and its pertinence to computational electromagnetics

Spheroidal Wave Functions in Electromagnetic Theory presents in detail the theory of spheroidal wave functions, its applications to the analysis of electromagnetic fields in various spheroidal structures, and provides comprehensive programming codes for those computations.

The topics covered in this monograph include:

- Spheroidal coordinates and wave functions
- Dyadic Green's functions in spheroidal systems
- EM scattering by a conducting spheroid
- EM scattering by a coated dielectric spheroid
- Spheroid antennas
- SAR distributions in a spheroidal head model

The programming codes and their applications are provided online and are written in Mathematica 3.0 or 4.0. Readers can also develop their own codes according to the theory or routine described in the book to find subsequent solutions of complicated structures.

Spheroidal Wave Functions in Electromagnetic Theory is a fundamental reference for scientists, engineers, and graduate students practicing modern computational electromagnetics or applied physics.

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