Accurate Computation of Mathieu Functions (Synthesis Lectures on Computational Electromagnetics)

Malcolm M. Bibby, Andrew F. Peterson

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This lecture presents a modern approach for the computation of Mathieu functions. These functions find application in boundary value analysis such as electromagnetic scattering from elliptic cylinders and flat strips, as well as the analogous acoustic and optical problems, and many other applications in science and engineering. The authors review the traditional approach used for these functions, show its limitations, and provide an alternative "tuned" approach enabling improved accuracy and convergence. The performance of this approach is investigated for a wide range of parameters and machine precision. Examples from electromagnetic scattering are provided for illustration and to show the convergence of the typical series that employ Mathieu functions for boundary value analysis.

Table of Contents: Introduction / Mathieu Functions / Observed Accuracy Using Traditional and Tuned Methods / Recommended Algorithm for Mathieu Function Computation / Electromagnetic Scattering from Conducting Elliptic Cylinders / Electromagnetic Scattering from an Infinite Conducting Strip / References / Authors' Biographies

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