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Spheroidal Wave Functions

CARSON FLAMMER

Spheroidal Wave Functions Carson Flammer

ML Morrison



Spheroidal Wave Functions Carson Flammer:

Spheroidal Wave Functions Carson Flammer, 2014-03-05 Intended to facilitate the use and calculation of spheroidal wave functions this applications oriented text features a detailed and unified account of the properties of these functions Addressed to applied mathematicians mathematical physicists and mathematical engineers it presents tables that provide a convenient means for handling wave problems in spheroidal coordinates Topics include separation of the scalar wave equation in spheroidal coordinates angle and radial functions integral representations and relations and expansions in spherical Bessel function products Additional subjects include recurrence relations of Whittaker type asymptotic expansions for large values of c and vector wave functions The text concludes with an appendix references and tables of numerical values

Mathematical Models and Numerical Methods for Full Wave Analysis of Prolate and Oblate Spheroidal Conformal Microwave Components Saif Al-Hasson, 2014-08-29 Conformal components are used nowadays at higher rate than ever before They can be found in curved mobile phones communication navigation and imaging systems in land water air and space vehicles The integration of those components within the external structure became of significant importance for aerodynamic electromagnetic aesthetic or physical reasons As a result many mathematical models were previously developed to analyze and optimize such conformed devices In this thesis we contributed to this field by developing various models for full wave analysis of spheroidal components As a starting point mathematical formulas for conforming antennas on oblate and prolate spheroids were obtained Those conformation methods were validated by conforming many antennas on spheroidal surfaces They were then used to formulate Method of Moments equations with spheroidally curved current functions for analyzing wire antennas of random shape conformed to spheroids in the frequency domain The complete model was applied to a conformal Archimedean spiral antenna on an oblate spheroid and showed that the conformed spiral has similar current distribution as its planar counterpart but produces an unsymmetrical radiation pattern The obtained model was then extended to spheroidal multi layer structures by integrating the spheroidal dyadic Green's Function within its mathematical derivation However due to a detected divergence in that function the model couldn't be implemented On the side of time based analysis methods a Finite Difference Time Domain method was developed for closed oblate and prolate spheroidal structures Alternative formulas for the structure's singularities and the condition of numerical stability were derived as well The obtained model was then validated and used to characterize spheroidal cavities in the time and frequency domains The method was extended later to unbounded spheroidal domain by deriving the Absorbing Boundary Conditions using the One Way Wave method The whole model was then applied to characterize a patch antenna conformed to a prolate spheroid Finally an analytical solution for the transient fields in spherical multilayer media energized by spherical harmonics source and an algorithm for tracing back the path of all the reflected waves were obtained The model was applied to different multilayer structures where the transient response was obtained and validated against a numerical solution

Hydrodynamics of Oceans and Atmospheres Carl Eckart, 2013-10-22 Hydrodynamics of Oceans and Atmospheres is a systematic account of the hydrodynamics of oceans and atmospheres Topics covered range from the thermodynamic functions of an ideal gas and the thermodynamic coefficients for water to steady motions the isothermal atmosphere the thermocline and the thermosphere Perturbation equations field equations residual equations and a general theory of rays are also presented This book is comprised of 17 chapters and begins with an introduction to the basic equations and their solutions with the aim of illustrating the laws of dynamics The nonlinear equations of thermodynamics and hydrodynamics are analyzed using the methods of perturbation theory with emphasis on the zero order solution zero order states of an ideal gas the first order equations the additive barotropic terms and boundary conditions The following chapters focus on the steady component of atmospheric pressure free steady motion with or without rotation field equations and general theorems relating to such equations and the stratification of the Earth's atmosphere oceans and lakes The next two chapters present calculations concerning the isothermal atmosphere with particular reference to plane level surfaces with or without rotation The final chapter looks at spherical level surfaces with rotation This monograph will be of interest to physicists oceanographers atmospheric scientists and meteorologists

Numerical Determination of Spheroidal Wave Function Eigenvalues and Expansion Coefficients M. M. Stuckey, L. L. Layton, 1964 **Technical Information Pilot**, 1952

Bibliography of Technical Reports, 1953 *Signals*, 1957 **The British National Bibliography** Arthur James Wells, 1957 The Publishers Weekly, 1957 **Analytical Evaluation of Jet Noise Source Location Technique**

Utilizing an Acoustically Hard Baffle with Aperture Thomas D. Norum, Edward P. McDaid, 1973 An analytical investigation was conducted on the experimental technique that uses shielding by an acoustically hard baffle to determine the location of noise sources in a jet The jet exhausts through a circular hole in the baffle and the radiated acoustic power is considered to be generated by a distributed source along the jet axis It is found that the effect of the baffle on the radiated power can be neglected only when the size of the source is on the order of a wavelength of the emitted sound or larger Since noise sources in a jet are compact the experimental technique is insufficient to identify these sources Aeronautical

Engineering Review, 1957 *Mathematical Tables and Other Aids to Computation*, 1959 **Diffraction of Elastic Waves and Dynamic Stress Concentrations** C. C. Mow, Yih-Hsing Pao, Yih-hsing Pao, 1973 Journal of the Franklin Institute

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Aeronautical Engineering Index, 1959 Aerospace Engineering Index, 1958 Books in Print, 1982 **General Catalogue of Printed Books** British Museum. Department of Printed Books, 1968

Enjoying the Track of Phrase: An Emotional Symphony within **Spheroidal Wave Functions Carson Flammer**

In a global taken by monitors and the ceaseless chatter of quick transmission, the melodic elegance and emotional symphony created by the published term usually disappear into the background, eclipsed by the relentless sound and disturbances that permeate our lives. However, nestled within the pages of **Spheroidal Wave Functions Carson Flammer** a stunning literary prize filled with organic emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, this fascinating masterpiece conducts viewers on a mental trip, skillfully unraveling the hidden tunes and profound influence resonating within each carefully constructed phrase. Within the depths of the touching evaluation, we will discover the book is main harmonies, analyze their enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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