

Prolate Spheroidal Wave Function

The wave equation in prolate spheroidal coordinates is

$$\begin{aligned} \nabla^2 \Phi + k^2 \Phi = & \frac{\partial}{\partial \xi_1} \left[(\xi_1^2 - 1) \frac{\partial \Phi}{\partial \xi_1} \right] + \frac{\partial}{\partial \xi_2} \left[(1 - \xi_2^2) \frac{\partial \Phi}{\partial \xi_2} \right] \\ & + \frac{\xi_1^2 - \xi_2^2}{(\xi_1^2 - 1)(1 - \xi_2^2)} \frac{\partial^2 \Phi}{\partial \phi^2} + c^2 (\xi_1^2 - \xi_2^2) \Phi = 0, \end{aligned} \quad (1)$$

where

$$c = \frac{1}{2} a k. \quad (2)$$

Substitute in a trial solution

$$\Phi = R_{mn}(c, \xi_1) S_{mn}(c, \xi_2) \begin{matrix} \cos \\ \sin \end{matrix} (m \phi) \quad (3)$$

$$\frac{d}{d \xi_1} \left[(\xi_1^2 - 1) \frac{d}{d \xi_1} R_{mn}(c, \xi_1) \right] -$$

Spheroidal Wave Functions

Thomas Griffiths

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Spheroidal Wave Functions:

The Enigmatic Realm of **Spheroidal Wave Functions**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Spheroidal Wave Functions** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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