

Prolate Spheroidal Wave Function

The wave equation in prolate spheroidal coordinates is

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

where

$$c = \frac{1}{2} a k. \tag{2}$$

Substitute in a trial solution

$$\Phi = R_{mn}(c, \xi_1) S_{mn}(c, \xi_2) \frac{\cos}{\sin}(m\phi) \tag{3}$$

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

Spheroidal Wave Functions

RD Boyd



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