

Solutions to Problems in Jackson,  
*Classical Electrodynamics*, Third Edition

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**Chapter 3: Problems 11-18**

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**Problem 3.11**

A modified Bessel-Fourier series on the interval  $0 \leq \rho \leq a$  for an arbitrary function  $f(\rho)$  can be based on the "homogenous" boundary conditions:

$$\text{At } \rho = 0, \quad \rho J_\nu(k\rho) \frac{d}{d\rho} J_\nu(k'\rho) = 0$$

$$\text{At } \rho = a, \quad \frac{d}{d\rho} \ln[J_\nu(k\rho)] = -\frac{\lambda}{a} \quad (\lambda \text{ real})$$

The first condition restricts  $\nu$ . The second condition yields eigenvalues  $k = y_{\nu n}/a$ , where  $y_{\nu n}$  is the  $n$ th positive root of  $x dJ_\nu(x)/dx + \lambda J_\nu(x) = 0$ .

- (a) Show that the Bessel functions of different eigenvalues are orthogonal in the usual way.
- (b) Find the normalization integral and show that an arbitrary function  $f(\rho)$  can be expanded on the interval in the modified Bessel-Fourier series

$$f(\rho) = \sum_{n=1}^{\infty} A_n J_\nu\left(\frac{y_{\nu n} \rho}{a}\right)$$

with the coefficients  $A_n$  given by

$$A_n = \frac{2}{a^2} \left[ \left(1 - \frac{\nu^2}{y_{\nu n}^2}\right) J_\nu^2(y_{\nu n}) + \left(\frac{dJ_\nu(y_{\nu n})}{dy_{\nu n}}\right)^2 \right]^{-1} \int_0^a f(\rho) \rho J_\nu\left(\frac{y_{\nu n} \rho}{a}\right) d\rho.$$

# Jackson Electrodynamics Solutions Chapter 3

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