Nebraska Wesleyan University

PHYS 229 Mathematical Methods for Physics and Engineering

Catalog

2012-2013

Course Description

Topics may include: Laplace transform and applications; series solution of differential equations, Bessel's equation, Legendre's equation, and special functions; matrices, eigenvalues and eigenfunctions; vector analysis and applications; boundary value programs and spectral representations; Fourier series and Fourier integrals; and solution of partial differential equations of mathematical physics.

Three lectures per week.

Prerequisite(s): MATH 224 Differential Equations or permission of the instructor.

Course Hours

3 hours

Departments

1. Physics