6. Laplace Transforms

(6.1-6.6)

6. Series Solutions

(6.7-6.9 through p. 284)

7. Second and Higher Order Linear Equations

(7.1-7.4, 7.6-7.8, 8.1)

4. Selected topics on first order equations

50 MIN. CLASSES
SUGGESTED NO. OF TOPICS

Partial differential equations, separation of variables, transforms.

Boundary value problems, ordinary and partial differential equations, orthogonal expansions.

This is the first quarter course in a three quarter sequence covering the theory of linear ordinary and partial differential equations.

Edition: By W. E. Boyce and R. C. DiPrima

Text: Elementary Differential Equations and Boundary Value Problems, Seventh Edition, Mathematics 146A

ORDINARY AND PARTIAL DIFFERENTIAL EQUATIONS

MATHEMATICS 146A