

PHY-503 : Methods of Mathematical Physics

Ismail Zahed

NTG-C141 Ext: 2-8129 Office Hour: F 3:4

ismail.zahed@stonybrook.edu

Outline

1. Variational Calculus
2. Function Spaces
3. Ordinary Differential Equations
4. Greens' Functions
5. Partial Differential Equations
6. Special Functions
7. Integral Equations
8. Tensor Analysis
9. Group Theory
10. Complex Analysis

Reference Material

M. Stone and P. Goldbart, "Mathematics for Physics", Ed. Cambridge 2010.

Grade

The grade will be : Hw (20%) + Mid (40%) + Fin (40%)

Grader

TBA