

PHY-503 : Methods of Mathematical Physics

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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