

APPLIED LINEAR OPERATORS

APM 570

Instructor : D. Jones
Time : TTh noon-1:15
Location : ECG 237
Line# : 91488

Topics:

Bounded linear and compact operators on Hilbert spaces

Linear integral equations

Sturm–Liouville eigenvalue problems

Fredholm and Hilbert–Schmidt theory

Distributions and Applications

Approximate methods

Prerequisites: Completion of a course in Applied Analysis is recommended prior to enrollment in this course. A senior-level course in ODEs or PDEs would be beneficial as well.

Grading: Based only on Homework.

Text: Lokenath Debnath, Piotr Mikusinski, *Introduction to Hilbert Spaces with Applications*, 3rd edition, Academic Press.