NPTEL Video Course - Mathematics - Matrix Theory

Subject Co-ordinator - Prof. Chandra Murthy

Co-ordinating Institute - IISc - Bangalore

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 69 - Location and perturbation of Eigenvalues - Part 1: Dominant diagonal theorem
Lecture 70 - Location and perturbation of Eigenvalues - Part 2: Gersgorin's theorem
Lecture 71 - Implications of Gersgorin disc theorem, condition of eigenvalues
Lecture 72 - Condition of eigenvalues for diagonalizable matrices
Lecture 73 - Perturbation of eigenvalues Birkhoff's theorem Hoffman-Weiland ttheorem
Lecture 74 - Singular value definition and some remarks
Lecture 75 - Proof of singular value decomposition theorem
Lecture 76 - Partitioning the SVD
Lecture 77 - Properties of SVD
Lecture 78 - Generalized inverse of matrices
Lecture 79 - Least squares
Lecture 80 - Constrained least squares