

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Mathematics - NOC:Functional Analysis

Subject Co-ordinator - Prof. Kesavan

Co-ordinating Institute - Institute of Mathematical Sciences

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

Lecture 1 - Normed Linear Spaces
Lecture 2 - Examples of Normed Linear Spaces
Lecture 3 - Examples (Continued...)
Lecture 4 - Continuous linear maps - Part 1
Lecture 5 - Continuous linear maps - Part 2
Lecture 6 - Isomorphisms
Lecture 7 - Exercises
Lecture 8 - Exercises (Continued...)
Lecture 9 - Hahn-Banach Theorems
Lecture 10 - Reflexivity
Lecture 11 - Geometric version
Lecture 12 - Geometric version (Continued...)
Lecture 13 - Vector valued integration
Lecture 14 - Exercises - Part 1
Lecture 15 - Exercises - Part 2
Lecture 16 - Baire's Theorem and Applications
Lecture 17 - Application to Fourier series
Lecture 18 - Open mapping and closed graph theorems
Lecture 19 - Annihilators
Lecture 20 - Complemented subspaces
Lecture 21 - Unbounded Operators, Adjoints - Part 1
Lecture 22 - Unbounded Operators, Adjoints - Part 2
Lecture 23 - Orthogonality relations
Lecture 24 - Exercises
Lecture 25 - Exercises (Continued...)
Lecture 26 - Weak topology - Part 1
Lecture 27 - Weak topology - Part 2
Lecture 28 - Weak topology - Part 3
Lecture 29 - Weak* topology - Part 1

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Lecture 30 - Weak* topology - Part 2
Lecture 31 - Reflexive Spaces
Lecture 32 - Separable Spaces - Part 1
Lecture 33 - Separable Spaces - Part 2
Lecture 34 - Uniformly Convex Spaces
Lecture 35 - Applications
Lecture 36 - Exercises
Lecture 37 - L-p Spaces - Part 1
Lecture 38 - L-p Spaces - Part 2
Lecture 39 - Completeness
Lecture 40 - Duality
Lecture 41 - L-p Spaces in Euclidean spaces - Part 1
Lecture 42 - L-p Spaces in Euclidean spaces - Part 2
Lecture 43 - Dual of L-1
Lecture 44 - The space L-1 (Continued...)
Lecture 45 - Exercises - Part 1
Lecture 46 - Exercises - Part 2
Lecture 47 - Exercises - Part 3
Lecture 48 - Exercises - Part 4
Lecture 49 - Hilbert spaces - Part 1
Lecture 50 - Hilbert spaces - Part 2
Lecture 51 - Duality
Lecture 52 - Adjoints
Lecture 53 - Applications
Lecture 54 - Orthonormal sets
Lecture 55 - Orthonormal bases - Part 1
Lecture 56 - Orthonormal bases - Part 2
Lecture 57 - Fourier series
Lecture 58 - Spectrum of an operator - Part 1
Lecture 59 - Spectrum of an operator - Part 2
Lecture 60 - Exercises - Part 1
Lecture 61 - Exercises - Part 2
Lecture 62 - Exercises - Part 3
Lecture 63 - Compact operators - Part 1
Lecture 64 - Compact operators - Part 2
Lecture 65 - Riesz-Fredholm theory - Part 1
Lecture 66 - Riesz-Fredholm theory - Part 2
Lecture 67 - Riesz-Fredholm theory
Lecture 68 - Spectrum of a compact operator

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- Lecture 69 - Spectrum of a compact self-adjoint operator
- Lecture 70 - Eigenvalues of a compact self-adjoint operator
- Lecture 71 - Exercises - Part 1
- Lecture 72 - Exercises - Part 2
- Lecture 73 - Exercises - Part 3
- Lecture 74 - Exercises - Part 4