

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

NPTEL Video Course - Mathematics - NOC:Measure and Integration

Subject Co-ordinator - Prof. S. Kesavan

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Preamble
Lecture 2 - Algebras of sets
Lecture 3 - Measures on rings
Lecture 4 - Outer-measure
Lecture 5 - Measurable sets
Lecture 6 - Caratheodory's method
Lecture 7 - Exercises
Lecture 8 - Exercises
Lecture 9 - Lebesgue measure: the ring
Lecture 10 - Construction of the Lebesgue measure
Lecture 11 - Errata
Lecture 12 - The Cantor set
Lecture 13 - Approximation
Lecture 14 - Approximation
Lecture 15 - Approximation
Lecture 16 - Translation Invariance
Lecture 17 - Non-measurable sets
Lecture 18 - Exercises
Lecture 19 - Measurable functions
Lecture 20 - Measurable functions
Lecture 21 - The Cantor function
Lecture 22 - Exercises
Lecture 23 - Egorov's theorem
Lecture 24 - Convergence in measure
Lecture 25 - Convergence in measure
Lecture 26 - Convergence in measure
Lecture 27 - Exercises
Lecture 28 - Integration: Simple functions
Lecture 29 - Non-negative functions

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- Lecture 30 - Monotone convergence theorem
- Lecture 31 - Examples
- Lecture 32 - Fatou's lemma
- Lecture 33 - Integrable functions
- Lecture 34 - Dominated convergence theorem
- Lecture 35 - Dominated convergence theorem: Applications
- Lecture 36 - Absolute continuity
- Lecture 37 - Integration on the real line
- Lecture 38 - Examples
- Lecture 39 - Weierstrass' theorem
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- Lecture 41 - Exercises
- Lecture 42 - Vitali covering lemma
- Lecture 43 - Monotonic functions
- Lecture 44 - Functions of bounded variation
- Lecture 45 - Functions of bounded variation
- Lecture 46 - Functions of bounded variation
- Lecture 47 - Differentiation of an indefinite integral
- Lecture 48 - Absolute continuity
- Lecture 49 - Exercises
- Lecture 50 - Product spaces
- Lecture 51 - Product spaces: measurable functions
- Lecture 52 - Product measure
- Lecture 53 - Fubini's theorem
- Lecture 54 - Examples
- Lecture 55 - Examples
- Lecture 56 - Integration of radial functions
- Lecture 57 - Measure of the unit ball in N dimensions
- Lecture 58 - Exercises
- Lecture 59 - Signed measures
- Lecture 60 - Hahn and Jordan decompositions
- Lecture 61 - Upper, lower and total variations of a signed measure; Absolute continuity
- Lecture 62 - Absolute continuity
- Lecture 63 - Radon-Nikodym theorem
- Lecture 64 - Radon-Nikodym theorem
- Lecture 65 - Exercises
- Lecture 66 - Lebesgue spaces
- Lecture 67 - Examples. Inclusion questions
- Lecture 68 - Convergence in L^p

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- Lecture 69 - Approximation
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- Lecture 72 - Duality
- Lecture 73 - Convolutions
- Lecture 74 - Convolutions
- Lecture 75 - Convolutions
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- Lecture 77 - Exercises
- Lecture 78 - Change of variable
- Lecture 79 - Change of variable