Mindluster Platform

About the course Functional analysis

Functional analysis is a branch of mathematical analysis, the core of which is formed by the study of vector spaces endowed with some kind of limit-related structure (e.g. inner product, norm, topology .

Programming Category's Courses

Course Lesson(32)

Lesson 1 : **Functional Analysis Part 1 Metric Space**

Lesson 2 : **Functional Analysis Part 2 Examples for metrics**

Lesson 3 : **Functional Analysis Part 3 Open and closed sets**

Lesson 4 : **Functional Analysis Part 4 Sequences limits and closed sets**

Lesson 5 : **Functional Analysis Part 5 Cauchy sequences and complete metric spaces**

Lesson 6 : **Functional Analysis Part 6 Norms and Banach spaces**

Lesson 7 : **Functional Analysis Part 7 Examples of Banach spaces**

Lesson 8 : **Functional Analysis Part 8 Inner Products and Hilbert Spaces**

Lesson 9 : **Functional Analysis Part 9 Examples of Inner Products and Hilbert Spaces**

Lesson 10 : **Functional Analysis Part 10 Cauchy Schwarz Inequality**

Lesson 11 : **Functional Analysis Part 11 Orthogonality**

Lesson 12 : **Functional Analysis Part 12 Continuity**

Lesson 13 : **Functional Analysis Part 13 Bounded Operators**

Lesson 14 : **Functional Analysis Part 14 Example Operator Norm**

Lesson 15 : **Functional Analysis Part 15 Riesz Representation Theorem**

Lesson 16 : **Functional Analysis Part 16 Compact Sets**

Lesson 17 : **Functional Analysis Part 17 ArzelÃ â€“Ascoli theorem**

Lesson 18 : **Functional Analysis Part 18 Compact Operators**

Lesson 19 : **Functional Analysis Part 19 HÃ¶lder s Inequality**

Lesson 20 : **Functional Analysis Part 20 Minkowski inequality**

Lesson 21 : **Functional Analysis Part 21 Isomorphisms**

Lesson 22 : **Functional Analysis Part 22 Dual spaces**

Lesson 23 : **Functional Analysis Part 23 Dual space Example**

Lesson 24 :

Functional Analysis Part 24 Uniform Boundedness Principle Banachâ€“Steinhaus Theorem

Lesson 25 : Functional Analysis Part 25 Hahnâ€“Banach theorem

Lesson 26 : Functional Analysis Part 26 Open Mapping Theorem

Lesson 27 : Functional Analysis Part 27 Bounded Inverse Theorem and Example

Lesson 28 : Spectral Theory 1 Spectrum of Bounded Operators Functional Analysis Part 28

Lesson 29 : Spectral Theory 2 Spectrum of Multiplication Operator Functional Analysis Part 29

Lesson 30 : Spectral Theory 3 Properties of the spectrum Functional Analysis Part 30

Lesson 31 : Spectral Theory 4 Spectral Radius Functional Analysis Part 31

Lesson 32 : Spectral Theory 5 Normal and Self Adjoint Operators Functional Analysis Part 32

Related courses

React Projects Workshops

Node js back end JavaScript

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Full Stack React Django

Build a Node js App With Sequelize

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