Mindluster Platform

About the course Applied Linear Algebra Vectors Matrices

What are vectors in linear algebra? Definition: A vector is a list of numbers. ... In this example, the list of numbers was only two elements long, but in principle it could be any length. The dimensionality of a vector is the length of the list. So, our example a is 2-dimensional because it is a list of two numbers.What is a linear vector? A linear vector space consists of a set of vectors or functions and the standard operations of addition, subtraction, and scalar multiplication. In solving ordinary and partial differential equations, we assume the solution space to behave like an ordinary linear vector space.What is a vector algebra? Definition of a vector. A vector is an object that has both a magnitude and a direction. Geometrically, we can picture a vector as a directed line segment, whose length is the magnitude of the vector and with an arrow indicating the direction. The direction of the vector is from its tail to its head.Is Linear Algebra hard? Conceptually it's very hard, but the mechanics aren't hard. Linear Algebra is very different from any other math you will have encountered up to this point. Getting your mind around the geometric basis of everything isn't easy. ... It is actually some of the only higher level math I have used in industry.Why vector space is called linear space? Vector spaces as abstract algebraic entities were first defined by the Italian mathematician Giuseppe Peano in 1888. Peano called his vector spaces â€œlinear systemsâ€ because he correctly saw that one can obtain any vector in the space from a linear combination of finitely many vectors and scalarsâ€”av + bw + â€¦ + cz.

Computer Science Category's Courses

Course Lesson(54)

Lesson 1 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 1 Introduction

Lesson 2 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 2 vector notation

Lesson 3 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 3 vector examples

Lesson 4 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 4 addition scalar mult

Lesson 5 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 5 VMLS inner product

Lesson 6 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 6 VMLS complexity

Lesson 7 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 7 VMLS linear functions

Lesson 8 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 8 VMLS taylor approx reg

Lesson 9 : **Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 9 VMLS norm**

Lesson 10 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 10 VMLS distance

Lesson 11 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 11 VMLS std deviation

Lesson 12 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 12 VMLS angle

Lesson 13 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 13 VMLS k means

Lesson 14 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 14 VMLS k means app

Lesson 15 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 15 VMLS linear ind

Lesson 16 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 16 VMLS Gram Schmidt algo

Lesson 17 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 17 VMLS matrix notation

Lesson 18 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 18 VMLS matrix vector mult

Lesson 19 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 19 VMLS matrix vector ex

Lesson 20 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 20 VMLS selector matrices

Lesson 21 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 21 VMLS incidence matrix

Lesson 22 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 22 VMLS convolution

Lesson 23 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 23 VMLS vector linear func

Lesson 24 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 24 VMLS linear func models

Lesson 25 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 25 VMLS linear equations

Lesson 26 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 26 VMLS linear dynamic sys

Lesson 27 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 27 VMLS matrix mult

Lesson 28 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 28 VMLS matrix mult ex

Lesson 29 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 29 VMLS mtrx pwrs QR fac

Lesson 30 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 30 VMLS left right inv

Lesson 31 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 31 VMLS solving linear eqs

Lesson 32 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 32 VMLS pseudo inverse

Lesson 33 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 33 VMLS least squares

Lesson 34 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 34 VMLS least squares ex

Lesson 35 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 35 VMLS LS data fitting

Lesson 36 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 36 VMLS fit univariate fnc

Lesson 37 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 37 VMLS validation

Lesson 38 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 38 VMLS classification

Lesson 39 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 39 VMLS LS classification

Lesson 40 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 40 VMLS multiclass classif

Lesson 41 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 41 VMLS multi objective LS

Lesson 42 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 42 ctrl via multi obj LS

Lesson 43 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 43 MLS est inversion

Lesson 44 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 44 VMLS reg data fitting

Lesson 45 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 45 VMLS constrained LS

Lesson 46 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 46 VMLS solve cstr LS prob

Lesson 47 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 47 VMLS portfolio optim

Lesson 48 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 48 VMLS linear quadrt ctrl

Lesson 49 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 49 VMLS lin quadrt st est

Lesson 50 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 50 VMLS nonlinear eq LS

Lesson 51 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 51 VMLS Leven Marq algo

Lesson 52 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 52 VMLS nonlin mdl fitting

Lesson 53 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 53 VMLS cstrd nonlinear LS

Lesson 54 :
Stanford ENGR108 Introduction to Applied Linear Algebra | 2020 | Lecture 54 VMLS aug Lagragian mthd

Related courses

Linear Algebra for Computer Scientists

Insertion Sort

Bubble Sort

GCSE Computer Science

Random Access Memory

Binary Trees

for Business Contact
business@mindluster.com