

CALCULATING INVERSE MATRICES

THESE ARE TWO MAIN WAYS TO CALCULATE AN INVERSE MATRIX: USING COFACTORS OR USING GAUSS-JORDAN ELIMINATION.

THE CALCULATIONS INVOLVED IN THE COFACTOR METHOD CAN VERY EASILY BECOME CUMBERSOME, SO...

IGNORE IT AS LONG AS YOU'RE NOT EXPECTING IT ON A TEST.

CAN DO.

IN CONTRAST, GAUSS-JORDAN ELIMINATION IS EASY BOTH TO UNDERSTAND AND TO CALCULATE.

BEHOLD! I WON'T TALK ABOUT COFACTORS AT ALL TODAY!

ACTING.

IN FACT, IT'S AS EASY AS SWEEPING THE FLOOR!

IN ADDITION TO FINDING INVERSE MATRICES, GAUSS-JORDAN ELIMINATION CAN ALSO BE USED TO SOLVE LINEAR SYSTEMS.

LET'S HAVE A LOOK AT THAT.

COOL!

* THE JAPANESE TERM FOR GAUSS-JORDAN ELIMINATION IS 高次方程式解法 (Kōshijō Hōshō), which literally translates to "the high-order equation method". Keep this in mind as you're reading this chapter!

PROBLEM

Solve the following linear system:

$$\begin{cases} 3x_1 + 3x_2 = 1 \\ 3x_1 + 2x_2 = 0 \end{cases}$$

SOLUTION

THE COFACTOR METHOD	THE COFACTOR METHOD AS EXPRESSED WITH MATRICES	GAUSS-JORDAN ELIMINATION
$\begin{cases} 3x_1 + 3x_2 = 1 \\ 3x_1 + 2x_2 = 0 \end{cases}$ Start by multiplying the top equation by $\frac{1}{3}$.	$\begin{bmatrix} 1 & 1 & \frac{1}{3} \\ 1 & 2 & 0 \end{bmatrix}$	$\begin{bmatrix} 1 & 1 & \frac{1}{3} \\ 1 & 2 & 0 \end{bmatrix}$
$\begin{cases} 3x_1 + 3x_2 = 1 \\ 3x_1 + 2x_2 = 0 \end{cases}$ Subtract the bottom equation from the top equation.	$\begin{bmatrix} 0 & 1 & \frac{1}{3} \\ 1 & 2 & 0 \end{bmatrix}$	$\begin{bmatrix} 0 & 1 & \frac{1}{3} \\ 1 & 2 & 0 \end{bmatrix}$
$\begin{cases} 3x_1 + 3x_2 = 1 \\ 3x_1 + 2x_2 = 0 \end{cases}$ Multiply the bottom equation by $\frac{1}{3}$.	$\begin{bmatrix} 0 & 1 & \frac{1}{3} \\ 1 & 2 & 0 \end{bmatrix}$	$\begin{bmatrix} 0 & 1 & \frac{1}{3} \\ 1 & 2 & 0 \end{bmatrix}$
$\begin{cases} 3x_1 + 3x_2 = 1 \\ 3x_1 + 2x_2 = 0 \end{cases}$ Add the top equation from the bottom equation.	$\begin{bmatrix} 0 & 1 & \frac{1}{3} \\ 0 & 0 & 0 \end{bmatrix}$	$\begin{bmatrix} 0 & 1 & \frac{1}{3} \\ 0 & 0 & 0 \end{bmatrix}$
$\begin{cases} 3x_1 + 3x_2 = 1 \\ 3x_1 + 2x_2 = 0 \end{cases}$ Divide the top equation by 3 and the bottom by 2.	$\begin{bmatrix} 0 & 1 & \frac{1}{3} \\ 0 & 0 & 0 \end{bmatrix}$	$\begin{bmatrix} 0 & 1 & \frac{1}{3} \\ 0 & 0 & 0 \end{bmatrix}$
$\begin{cases} 3x_1 + 3x_2 = \frac{1}{3} \\ 3x_1 + 2x_2 = -\frac{1}{2} \end{cases}$ And we're done!	$\begin{bmatrix} 1 & 0 & \frac{1}{3} \\ 0 & 1 & \frac{1}{3} \end{bmatrix}$	$\begin{bmatrix} 1 & 0 & \frac{1}{3} \\ 0 & 1 & \frac{1}{3} \end{bmatrix}$

SO YOU JUST REWROTE THE EQUATIONS AS MATRICES AND CALCULATED AS USUAL?

HELL...

THAT'S ALL YOU HAD TO DO TO SOLVE THIS SYSTEM?

HELL...

The Manga Guide To Linear Algebra Shin Takahashi

Shin Takahashi,Iroha Inoue



The Manga Guide To Linear Algebra Shin Takahashi:

The Manga Guide to Linear Algebra Shin Takahashi,Iroha Inoue,Co Ltd Trend,2012-05-01 Reiji wants two things in life a black belt in karate and Misa the girl of his dreams Luckily Misa s big brother is the captain of the university karate club and is ready to strike a deal Reiji can join the club if he tutors Misa in linear algebra Follow along in The Manga Guide to Linear Algebra as Reiji takes Misa from the absolute basics of this tricky subject through mind bending operations like performing linear transformations calculating determinants and finding eigenvectors and eigenvalues With memorable examples like miniature golf games and karate tournaments Reiji transforms abstract concepts into something concrete understandable and even fun As you follow Misa through her linear algebra crash course you ll learn about Basic vector and matrix operations such as addition subtraction and multiplication Linear dependence independence and bases Using Gaussian elimination to calculate inverse matrices Subspaces dimension and linear span Practical applications of linear algebra in fields like computer graphics cryptography and engineering But Misa s brother may get more than he bargained for as sparks start to fly between student and tutor Will Reiji end up with the girl or just a pummeling from her oversized brother Real math real romance and real action come together like never before in The Manga Guide to Linear Algebra *The Manga Guide to Linear Algebra* Shin Takahashi,Iroha Inoue,2012 The Manga Guide to Linear Algebra uses Japanese comics clear explanations and a charming storyline to explain the essentials of linear algebra **The Manga Guide to Linear Algebra** Shin Takahashi,2012 Follow along in The Manga Guide to Linear Algebra as Reiji takes Misa from the absolute basics of this tricky subject through mind bending operations like performing linear transformations calculating determinants and finding eigenvectors and eigenvalues With memorable examples like miniature golf games and karate tournaments Reiji transforms abstract concepts into something concrete understandable and even fun The Manga Guide to Regression Analysis Shin Takahashi,Iroha Inoue,Co Ltd Trend,2016-05-01 Like a lot of people Miu has had trouble learning regression analysis But with new motivation in the form of a handsome but shy customer and the help of her brilliant caf coworker Risa she s determined to master it Follow along with Miu and Risa in The Manga Guide to Regression Analysis as they calculate the effect of temperature on iced tea orders predict bakery revenues and work out the probability of cake sales with simple multiple and logistic regression analysis You ll get a refresher in basic concepts like matrix equations inverse functions logarithms and differentiation before diving into the hard stuff Learn how to Calculate the regression equation Check the accuracy of your equation with the correlation coefficient Perform hypothesis tests and analysis of variance and calculate confidence intervals Make predictions using odds ratios and prediction intervals Verify the validity of your analysis with diagnostic checks Perform chi squared tests and F tests to check the goodness of fit Whether you re learning regression analysis for the first time or have just never managed to get your head around it The Manga Guide to Regression Analysis makes mastering this tricky technique straightforward and fun *The Manga Guide to Regression Analysis* Shin

Takahashi,Iroha Inoue,2016 A guide to regression analysis that combines Japanese style manga cartoons with educational content Concepts include matrix equations inverse functions logarithms and differentials Also covers single multiple and binomial logistic regression analysis hypothesis tests analysis of variance F and Chi squared distributions and confidence intervals

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математика. Линейная алгебра Син Такахаси,2022-01-29 **Manga Guide to Linear Algebra** ,2012 *The Linear Algebra Survival Guide* Fred Szabo,2015-02-27 The Linear Algebra Survival Guide offers a concise introduction to the difficult core topics of linear algebra guiding you through the powerful graphic displays and visualization of Mathematica that make the most abstract theories seem simple allowing you to tackle realistic problems using simple mathematical manipulations This resource is therefore a guide to learning the content of Mathematica in a practical way enabling you to manipulate potential solutions outcomes and learn creatively No starting knowledge of the Mathematica system is required

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No Bullshit Guide to Linear Algebra Ivan Savov, 2020-10-25 This textbook covers the material for an undergraduate linear algebra course vectors matrices linear transformations computational techniques geometric constructions and theoretical foundations The explanations are given in an informal conversational tone The book also contains 100 problems and exercises with answers and solutions A special feature of this textbook is the prerequisites chapter that covers topics from high school math which are necessary for learning linear algebra The presence of this chapter makes the book suitable for beginners and the general audience readers need not be math experts to read this book Another unique aspect of the book are the applications chapters Ch 7 8 and 9 that discuss applications of linear algebra to engineering computer science economics chemistry machine learning and even quantum mechanics

Student Study Guide for Linear Algebra with Applications Steven Leon, 2014-07-24

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