

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 高次消去法 (GAKU SHUSOKU HOPPO), WHICH LITERALLY "TRANSLATES TO 'THE HIGHER-ORDER CANCELLATION METHOD'." WE'LL USE THIS AS LONG 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 -1.	$\begin{bmatrix} 3 & 3 & 1 \\ 3 & 2 & 0 \end{bmatrix} \rightarrow \begin{bmatrix} 3 & 3 & 1 \\ 0 & -1 & -1 \end{bmatrix}$	$\begin{bmatrix} 3 & 3 & 1 \\ 3 & 2 & 0 \end{bmatrix}$
$\begin{cases} 3x_1 + 3x_2 = 0 \\ 3x_1 + 2x_2 = 0 \end{cases}$ Subtract the bottom equation from the top equation.	$\begin{bmatrix} 3 & 3 & 1 \\ 3 & 2 & 0 \end{bmatrix} \rightarrow \begin{bmatrix} 0 & 1 & 1 \\ 3 & 2 & 0 \end{bmatrix}$	$\begin{bmatrix} 0 & 1 & 1 \\ 3 & 2 & 0 \end{bmatrix}$
$\begin{cases} 3x_1 + 3x_2 = 0 \\ 3x_1 + 2x_2 = 0 \end{cases}$ Multiply the bottom equation by -1.	$\begin{bmatrix} 3 & 3 & 1 \\ 3 & 2 & 0 \end{bmatrix} \rightarrow \begin{bmatrix} 3 & 3 & 1 \\ 0 & 1 & 1 \end{bmatrix}$	$\begin{bmatrix} 0 & 1 & 1 \\ 3 & 2 & 0 \end{bmatrix}$
$\begin{cases} 3x_1 + 3x_2 = 0 \\ 3x_1 + 2x_2 = 0 \end{cases}$ Add the top equation times the bottom equation.	$\begin{bmatrix} 3 & 3 & 1 \\ 0 & 1 & 1 \end{bmatrix} \rightarrow \begin{bmatrix} 3 & 0 & -1 \\ 0 & 1 & 1 \end{bmatrix}$	$\begin{bmatrix} 3 & 0 & -1 \\ 0 & 1 & 1 \end{bmatrix}$
$\begin{cases} 3x_1 + 3x_2 = 0 \\ 3x_1 + 2x_2 = 0 \end{cases}$ Divide the top equation by 3 and the bottom by -1.	$\begin{bmatrix} 3 & 0 & -1 \\ 0 & 1 & 1 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 0 & -\frac{1}{3} \\ 0 & 1 & 1 \end{bmatrix}$	$\begin{bmatrix} 1 & 0 & -\frac{1}{3} \\ 0 & 1 & 1 \end{bmatrix}$
$\begin{cases} x_1 + 3x_2 = -\frac{1}{3} \\ x_1 + 2x_2 = 0 \end{cases}$ And we're done!	$\begin{bmatrix} 1 & 0 & -\frac{1}{3} \\ 0 & 1 & 1 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 1 \end{bmatrix}$	$\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \end{bmatrix}$

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

HELL...

THAT'S THE BEST WAY TO DO IT! IT'S MUCH EASIER TO UNDERSTAND AND CALCULATE!

HELL...

The Manga Guide To Linear Algebra Shin Takahashi

**David C. Lay, Steven R. Lay, Judi J.
McDonald**



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

Graphic Novels Michael Pawuk,David S. Serchay,2017-05-30 Covering genres from adventure and fantasy to horror science fiction and superheroes this guide maps the vast terrain of graphic novels describing and organizing titles to help librarians balance their graphic novel collections and direct patrons to read alike New subgenres new authors new artists and new titles appear daily in the comic book and manga world joining thousands of existing titles some of which are very popular and well known to the enthusiastic readers of books in this genre How do you determine which graphic novels to purchase and which to recommend to teen and adult readers This updated guide is intended to help you start update or maintain a graphic novel collection and advise readers about the genre Containing mostly new information as compared to the previous edition the book covers iconic super hero comics and other classic and contemporary crime fighter based comics action and adventure comics including prehistoric heroic explorer and Far East adventure as well as Western adventure science fiction titles that encompass space opera fantasy aliens post apocalyptic themes and comics with storylines revolving around computers robots and artificial intelligence There are also chapters dedicated to fantasy titles horror titles such as comics about vampires werewolves monsters ghosts and the occult crime and mystery titles regarding detectives police officers junior sleuths and true crime comics on contemporary life covering romance coming of age stories sports and social and political issues humorous titles and various nonfiction graphic novels

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The Artist's Guide to GIMP, 2nd Edition Michael Hammel, 2012-06-12 As a full featured free alternative to Adobe Photoshop GIMP is one of the world's most popular open source projects The latest version of GIMP 2.8 brings long awaited improvements and powerful new tools to make graphic design and photo manipulation even easier but it's still a notoriously challenging program to use The Artist's Guide to GIMP teaches you how to use GIMP without a tedious list of menu paths and options Instead as you follow along with Michael J Hammel's step by step instructions you'll learn to produce professional looking advertisements apply impressive photographic effects and design cool logos and text effects These extensively illustrated tutorials are perfect for hands on learning or as templates for your own artistic experiments After a crash course in GIMP's core tools like brushes patterns selections layers modes and masks you'll learn Photographic techniques to clean up blemishes and dust create sepia toned antique images swap colors produce motion blurs alter depth of field simulate a tilt shift and fix rips in an old photo Web design techniques to create navigation tabs icons fancy buttons backgrounds and borders Type effects to create depth perspective shadows metallic and distressed text and neon and graffiti lettering Advertising effects to produce movie posters and package designs simulate clouds cracks cloth and underwater effects and create specialized lighting Whether you're new to GIMP or you've been playing with this powerful software for years you'll be inspired by the original art creative photo manipulations and numerous tips for designers Covers GIMP 2.8

Quantum Computing Andrew Glassner, 2025-09-16 A friendly introduction to quantum programming What if you had a computer that could process billions of different inputs at the same time Quantum computing is a radically new way to think about algorithms and data It can feel mysterious or technically challenging but it doesn't have to be If you want to understand how quantum computers work and

how to program them this friendly self contained guide is for you This approachable yet rigorous book walks you step by step through quantum computing fundamentals such as superposition quantum gates interference entanglement and measurement then teaches you how to write real quantum programs Along the way you ll Understand how to store and transform quantum information Grasp the surprising process of quantum measurement Explore Simon s Grover s and Shor s algorithms Write and run your own quantum code using free simulators and live hardware Author Andrew Glassner is known for turning complex topics into accessible and enjoyable learning experiences In this book he brings visual thinking clarity context and precision to the strange and fascinating world of quantum programming All the ideas and math are built up slowly so you ll master every step Whether you re a programmer student educator scientist poet or anyone else who loves new ideas that stretch your mind this is the guide that will take you from What is a qubit to writing and running working quantum algorithms with curiosity creativity and confidence Computer Graphics from Scratch Gabriel

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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

Linear Algebra and Its Applications; Student Study Guide for Linear Algebra and Its Applications student Study Guide for Linear Algebra and Its Applica David C. Lay, Steven R. Lay, Judi J. McDonald, 2015-06-14

Introduction to Linear Algebra Robert F. V. Anderson, 1986

Fundamentals of Linear Algebra Katsumi Nomizu, 1989

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