

Linear Algebra David Poole 3rd Edition

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david poole s innovative book emphasizes vectors and geometric intuition from the start and better prepares students to make the transition from the computational aspects of the course to the theoretical poole covers vectors and vector geometry first to enable students to visualize the mathematics while they are doing matrix operations with a concrete understanding of vector geometry students are able to visualize and understand the meaning of the calculations that they will encounter by seeing the mathematics and understanding the underlying geometry students develop mathematical maturity and can think abstractly when

they reach vector spaces throughout the text poole's direct conversational writing style connects with students and an abundant selection of applications from a broad range of disciplines clearly demonstrates the relevance of linear algebra

contains detailed worked solutions to all odd numbered exercises in the text section and chapter summaries of symbols definitions and theorems and study tips and hints complex exercises are explored through a question and answer format designed to deeper understanding challenging and entertaining problems that further explore selected exercises are also included

poole's linear algebra a modern introduction cengage international edition 5th emphasizes a vectors approach and prepares students to transition from computational to theoretical mathematics balancing theory and applications the conversational writing style combines traditional presentation with student centered learning theoretical computational and applied topics are presented in a flexible integrated way stressing geometric understanding before computational techniques vectors and vector geometry are introduced early to help students visualize concepts and develop mathematical maturity for abstract thinking applications drawn from a variety of disciplines reinforce linear algebra as a valuable tool for modeling real life problems exercises allow students to practice linear algebra concepts and techniques learning objectives in each section serve as a guide for students and instructors

a majority of mathematics textbooks are written in a rigorous concise dry and boring way on the other hands there exist excellent engaging fun to read popular math books the problem with these popular books is the lack of mathematics itself this book is a blend of both it provides a mathematics book to read to engage with and to understand the whys the story behind the theorems written by an engineer not a mathematician who struggled to learn math in high school and in university this book explains in an informal voice the mathematics that future and current engineering and science students need to acquire if we learn math to understand it to enjoy it not to pass a test or an exam we all learn math better and there is no such a thing that we call math phobia with a slow pace and this book everyone can learn math and use it as the author did at the age of 40 and with a family to take care of

das buch ist das erste umfassende deutschsprachige lehrbuch zur computeranimation das sich speziell an studierende der informatik und der ingenieurwissenschaften richtet die ihr verständnis der mathematischen grundlagen und algorithmen dieses spannenden gebiets vertiefen wollen das lehrbuch ist in vier hauptteile gegliedert und deckt damit alle wichtigen bereiche der computeranimation ab animationssysteme objektanimation charakteranimation und prozedurale animation jeder teil ist in weitere kapitel unterteilt und bietet eine detaillierte darstellung der algorithmen und methoden der computeranimation mit ausführlichen erklärungen im ersten teil werden die wichtigsten konzepte von animationssystemen wie szenengraphen zeit und game loop erläutert im zweiten teil geht es

um die animation und steuerung von objekten entlang von kurven die die grundlage vieler animationstechniken bilden im dritten teil wird das gebiet der charakteranimation ausführlich behandelt kinematik und inverse kinematik werden diskutiert skinning methoden vorgestellt und motion capture und die verarbeitung von bewegungsdaten ausführlich beschrieben der letzte teil des buches beschäftigt sich mit der prozeduralen animation und stellt verschiedene algorithmen für physikalisch basierte animation und partikelsysteme vor im gesamten buch finden sich zahlreiche beispiele und illustrationen die das verständnis der behandelten konzepte und verfahren vertiefen am ende jedes kapitels finden sich verweise auf historische und weiterführende literatur die zu weiterer forschung anregen ein wichtiger teil des buches sind die zahlreichen Übungen und projekte die helfen das gelernte zu vertiefen und selbst zu erproben

teach your students both the mathematics of numerical methods and the art of computer programming introduction to computational linear algebra presents classroom tested material on computational linear algebra and its application to numerical solutions of partial and ordinary differential equations the book is designed for senior undergraduate stud

this textbook is a comprehensive introduction to computational mathematics and scientific computing suitable for undergraduate and postgraduate courses it presents both practical and theoretical aspects of the subject as well as advantages and pitfalls of classical numerical methods alongside with computer code and experiments in python each chapter closes with modern applications in physics engineering and computer science features no previous experience in python is required includes simplified computer code for fast paced learning and transferable skills development includes practical problems ideal for project assignments and distance learning presents both intuitive and rigorous faces of modern scientific computing provides an introduction to neural networks and machine learning

introduction math fundamentals numerical methods dynamics optimal estimation state estimation control perception localization and mapping motion planning

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publisher description

these six volumes include approximately 20 000 reviews of items in number theory that

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