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(Autor) Herbert Muthsam (Titel) Lineare Algebra und Ihre Anwendungen (usp) mit vielen Übungsaufgaben (copy) Bei diesem Lehrbuch wird von Anfang an ein starkes Gewicht auf die Wechselbeziehungen zwischen guter Theorie und Anwendungen gelegt. Ein einfacher, anschauungsbasierter Zugang in den ersten Kapiteln ermöglicht einen sanften Einstieg in die mathematische Denkweise. Anwendungen, die sich auf dieser Basis ganz natürlich ergeben, umfassen Fouriertransformationen, gewöhnliche Differentialgleichungen, lineare Optimierung sowie Methoden der Modellierung und numerische Verfahren mit Blick auf Fragen aus Naturwissenschaften, Technik und Wirtschaftswissenschaften. (Biblio)

Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately for you, there's Schaum's. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your

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skills. This Schaum's Outline gives you 1,370 fully solved problems Complete review of all course fundamentals Clear, concise explanations of all Advanced Calculus concepts Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time--and get your best test scores! Topics include: Numbers; Sequences; Functions, Limits, and Continuity; Derivatives; Integrals; Partial Derivatives; Vectors; Applications of Partial Derivatives; Multiple Integrals; Line Integrals, Surface Integrals, and Integral Theorems; Infinite Series; Improper Integrals; Fourier Series; Fourier Integrals; Gamma and Beta Functions; and Functions of a Complex Variable Schaum's Outlines--Problem Solved.

The original edition of this book has been out of print for some years. The appearance of the present second edition owes much to the initiative of Yves Nievergelt at Eastern Washington University, and the support of Ann Kostant, Mathematics Editor at Birkhauser. Since the book was first published, several people have remarked on the absence of exercises and expressed the opinion that the book would have been more useful had exercises been included. In 1997, Yves Nievergelt informed me that, for a decade, he had regularly taught a course at Eastern Washington based on the book, and that he had systematically compiled exercises for his course. He kindly put his work at my disposal. Thus, the present

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edition appears in two parts. The first is essentially just a reprint of the original edition. I have corrected the misprints of which I have become aware (including those pointed out to me by others), and have made a small number of other minor changes.

This Schaum's Study Guide is the perfect tool for getting a handle on statistics. Fully stocked with solved problems—508 of them—it shows you how to work problems that may not have been fully explained in class. Plus you get 694 additional problems to use for practice, with answers at the back of the book. Ideal for independent study, brushup before exams, or preparation for professional tests, this Schaum's guide is clear, complete, and well-organized. It even prepares you for computer solutions of statistical problems, fully explaining the use of Minitab, the most popular statistical software. It's the perfect supplement for any course in statistics, and a super helper for the math-challenged.

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field of study. Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time- and get your best test scores! Schaum's Outlines-Problem Solved.

This book is aimed to provide a basic description of current networking technologies and protocols as well as to provide important tools for network performance analysis based on queuing theory. The second edition adds selected contents in the first part of the book for what concerns: (i) the token bucket regulator and traffic shaping issues; (ii) the TCP protocol congestion control that has a significant part in current networking; (iii) basic satellite networking issues; (iv) adding details on QoS support in IP networks. The book is organized so that we have first networking technologies and protocols (Part I) and then theory and exercises with applications to the different technologies and protocols (Part II). This book is intended as a textbook for master level courses in networking and telecommunications sectors.

This 2003 edition is ideal for use in undergraduate and introductory graduate level courses in complex variables.

This book is intended for someone learning functions of a complex variable and who enjoys using MATLAB. It will enhance the experience of learning complex variable theory and will strengthen the knowledge of someone already trained in this branch of advanced calculus. ABET, the accrediting board for engineering programs, makes it clear that engineering graduates must be skilled in the art of programming in a

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language such as MATLAB®. Supplying students with a bridge between the functions of complex variable theory and MATLAB, this supplemental text enables instructors to easily add a MATLAB component to their complex variables courses. A MATLAB® Companion to Complex Variables provides readers with a clear understanding of the utility of MATLAB in complex variable calculus. An ideal adjunct to standard texts on the functions of complex variables, the book allows professors to quickly find and assign MATLAB programming problems that will strengthen students' knowledge of the language and concepts of complex variable theory. The book shows students how MATLAB can be a powerful learning aid in such staples of complex variable theory as conformal mapping, infinite series, contour integration, and Laplace and Fourier transforms. In addition to MATLAB programming problems, the text includes many examples in each chapter along with MATLAB code. Fractals, the most recent interesting topic involving complex variables, demands to be treated with a language such as MATLAB. This book concludes with a Coda, which is devoted entirely to this visually intriguing subject. MATLAB is not without constraints, limitations, irritations, and quirks, and there are subtleties involved in performing the calculus of complex variable theory with this language. Without knowledge of these subtleties, engineers or scientists attempting to use MATLAB for solutions of practical problems in complex variable theory suffer the risk of making major mistakes. This book serves as an early warning system about these pitfalls.

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If you want top grades and thorough understanding of precalculus, this powerful study tool is the best tutor you can have! It takes you step-by-step through the subject and gives you more than 600 accompanying related problems with fully worked solutions. You also get plenty of practice problems to do on your own, working at your own speed. (Answers provided to show you how you're doing.) Famous for their clarity, wealth of illustrations and examples, and lack of dreary minutiae, Schaum's Outlines have sold more than 30 million copies worldwide and this guide will show you why!

Wer sich mit einer Wissenschaft bekannt machen will, darf nicht nur nach den reifen Früchten greife- er muß sich darum bekümmern, wie und wo sie gewachsen sind (J.c. POGGENDORFF). Darstellung der Funktionentheorie mit lebhaften Beziehungen zur geschichtlichen Entwicklung und zu Nachbardisziplinen: Das ist auch das Leitmotiv dieses zweiten Bandes. Der Leser soll Funktionentheorie persönlich erleben und teilhaben am Wirken des schaffenden Mathematikers. Natürlich lassen sich nicht immer im Nachhinein die Gerüste aufstellen, die man zum Bau von Domen braucht, doch sollte ein Lehrbuch nicht GAUSS folgen, der sagte, man dürfe einem guten Bauwerke nach seiner Vollendung nicht mehr das Gerüste ansehen *>. Bisweilen ist auch das Gefüge des überall glatt verputzten Hauses bloß zu legen. Das Gebäude der Funktionentheorie wurde von ABEL, CAUCHY, JACOBI, RIEMANN, WEIERSTRASS errichtet. Daneben haben viele andere wichtige und schöne Beiträge geliefert; es ist nicht nur das Wirken der Könige zu schildern, sondern auch das Leben der Edelleute

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und Bürger in den Königreichen. Dadurch wurden die Literaturhinweise sehr umfangreich. Doch scheint das ein geringer Preis. "Man kann der studirenden Jugend keinen größeren Dienst erweisen als wenn man sie zweckmäßig anleitet, sich durch das Studium der Quellen mit den Fortschritten der Wissenschaft bekannt zu machen" (Brief von WEIERSTRASS an CASORATI vom 21. Dez. 1868). Anders als im ersten Band finden sich häufig Ausblicke auf die Funktionen theorie mehrerer komplexer Veränderlichen: Damit soll unterstrichen werden, wie eigengesetzlich diese Disziplin geworden ist gegenüber der klassischen Funktionen theorie, aus der sie einst entsprang.

An introduction to complex variables that caters for undergraduate students in applied mathematics, science, and engineering.

One of the most diverse branch of mathematics, complex variables proves enormously valuable for solving problems of heat flow, potential theory, fluid mechanics, electromagnetic theory, aerodynamics and moany others that arise in science and engineering. As taught in this exceptional study guide, which progresses from the algebra and geometry of complex numbers to conformal mapping and its diverse applications, students learn theories, applications and first-rate problem-solving skills.

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than 40 million students have trusted Schaum's to help them study faster, learn better, and get top grades. Now Schaum's is better than ever-with a new look, a new format with hundreds of practice problems, and completely updated information to conform to the latest developments in every field of study. Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time-and get your best test scores! Schaum's Outlines-Problem Solved.

Complex variables are arbitrary complex numbers, and you need to know how they work if you want to learn an important area of mathematics. David C. Kay, a longtime college professor who has written several books geared for college students, explains what complex variables are and how to use them in this textbook written for those with a working knowledge of algebra and calculus. You'll review basic concepts from calculus and gradually discover more sophisticated ideas, such as differentiation and integration in complex variables, which are clearly explained with numerical examples. Other topics include infinite series of complex variables, uniform convergence, the Taylor and Laurent series, and methods for evaluating difficult integrals. Charts, tables, and drawings throughout the book make even tough concepts easy to understand, and problems have been carefully crafted to cover the main concepts while

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maintaining your interest. Whether you're an educator seeking to provide an additional resource for your students or a student seeking a self-help guide to understand complex variables, this basic course is a refreshing treatment that can be a stand-alone tutorial or companion guide to another textbook.

Web Copy The idea of complex numbers dates back at least 300 years—to Gauss and Euler, among others. Today complex analysis is a central part of modern analytical thinking. It is used in engineering, physics, mathematics, astrophysics, and many other fields. It provides powerful tools for doing mathematical analysis, and often yields pleasing and unanticipated answers. This book makes the subject of complex analysis accessible to a broad audience. The complex numbers are a somewhat mysterious number system that seems to come out of the blue. It is important for students to see that this is really a very concrete set of objects that has very concrete and meaningful applications. Features: This new edition is a substantial rewrite, focusing on the accessibility, applied, and visual aspect of complex analysis This book has an exceptionally large number of examples and a large number of figures. The topic is presented as a natural outgrowth of the calculus. It is not a new language, or a new way of thinking. Incisive applications appear throughout the book. Partial differential equations are used as a unifying theme.

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This book is written to be a convenient reference for the working scientist, student, or engineer who needs to know and use basic concepts in complex analysis. It is not a book of mathematical theory. It is instead a book of mathematical practice. All the basic ideas of complex analysis, as well as many typical applications, are treated. Since we are not developing theory and proofs, we have not been obliged to conform to a strict logical ordering of topics. Instead, topics have been organized for ease of reference, so that cognate topics appear in one place. Required background for reading the text is minimal: a good grounding in (real variable) calculus will suffice. However, the reader who gets maximum utility from the book will be that reader who has had a course in complex analysis at some time in his life. This book is a handy compendium of all basic facts about complex variable theory. But it is not a textbook, and a person would be hard put to endeavor to learn the subject by reading this book.

Der Autor arrangiert seine Gesichte der "positiven Energie" um die Metapher eines Busses, welcher sinnbildlich für das Leben eines jeden Einzelnen steht und stellt zehn konkrete Handlungsmaxime für ein positiveres und glücklicheres Leben vor. Um zu diesen Empfehlungen zu gelangen, begleiten wir George, der als Teamleiter bei einem Glühbirnenfabrikanten arbeitet. George hat nicht nur auf der Arbeit seinen Weg verloren. Als ehemals gefeierter Günstling seinen Chefs steht er mittlerweile nicht nur unter Dauerstress sondern auch auf der Abschussliste. Das wirkt sich auch auf sein Privatleben aus. Zu wenig Zeit für seine Kinder und zu wenig Zuwendung für seine Frau führen immer wieder zu Spannungen in der einst so harmonischen Beziehung. Seine Existenz ist nicht viel mehr als ein Scherbenhaufen. Bis zu dem Tag, als ihn ein platter Reifen zwingt, den Bus zu nehmen

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und er auf die Busfahrerin Joy trifft. Was er in diesem Moment noch nicht weiß: Joy und die Passagiere ihres Busses haben es sich zur Aufgabe gemacht, gescheiterte Existenzen wie George mittels zehn einfacher Regeln wieder auf den rechten Weg zu führen. Zunächst reagiert George sehr ablehnend, doch schließlich lässt er sich auf die "Behandlung" der ewig lächelnden Busfahrerin ein und kann schon bald erste Erfolge verzeichnen. Letzten Endes rettet die Fahrt im "Energy Bus" nicht nur seinen Job und seine Ehe, sondern macht ihn auch zu einem glücklicheren Menschen.

Schaum's Outline of Complex Variables, 2edMcGraw Hill Professional

Updated to match the emphasis in today's courses, this clear study guide focuses entirely on plane trigonometry. It summarizes the geometry properties and theorems that prove helpful for solving trigonometry problems. Also, where solving problems requires knowledge of algebra, the algebraic processes and the basic trigonometric relations are explained carefully.

Hundreds of problems solved step by step speed comprehension, make important points memorable, and teach problem-solving skills. Many additional problems with answers help reinforce learning and let students gauge their progress as they go.

Intended for upper-level undergraduate and graduate courses in chemistry, physics, mathematics and engineering, this text is also suitable as a reference for advanced students in the physical sciences. Detailed problems and worked examples are included.

The Handbook of Mathematics for Engineers and Scientists covers the main fields of mathematics and focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical

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modeling of numerous phenomena and processes in science and technology. To accommodate different mathematical backgrounds, the preeminent authors outline the material in a simplified, schematic manner, avoiding special terminology wherever possible. Organized in ascending order of complexity, the material is divided into two parts. The first part is a coherent survey of the most important definitions, formulas, equations, methods, and theorems. It covers arithmetic, elementary and analytic geometry, algebra, differential and integral calculus, special functions, calculus of variations, and probability theory. Numerous specific examples clarify the methods for solving problems and equations. The second part provides many in-depth mathematical tables, including those of exact solutions of various types of equations. This concise, comprehensive compendium of mathematical definitions, formulas, and theorems provides the foundation for exploring scientific and technological phenomena. Selling over 220,000 copies in its first edition, Schaum's Outline of Probability and Statistics has become a vital resource for the more than 977,000 college students who enroll in related probability and statistics courses each year. Its big-picture, calculus-based approach makes it an especially authoritative reference for engineering and science majors. Now thoroughly updated, this second edition includes vital new coverage of order statistics, best critical regions, likelihood

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ratio tests, and other key topics.

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