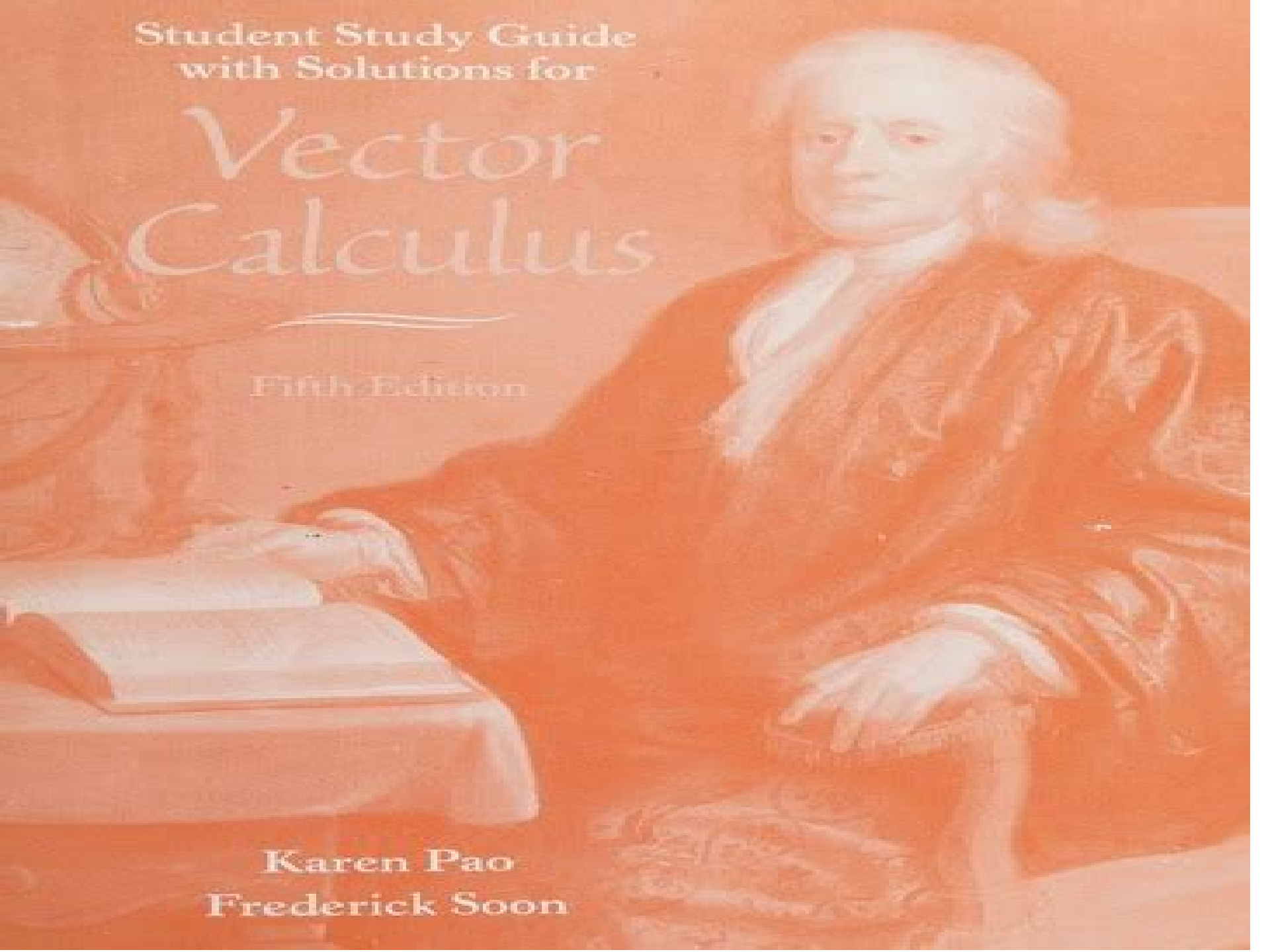


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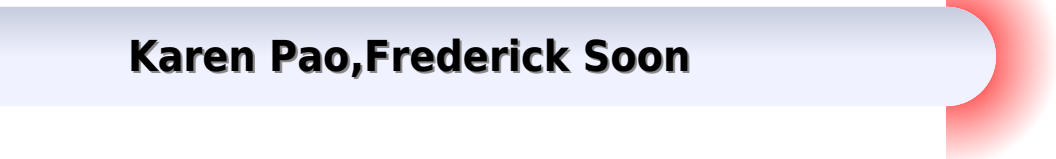
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Vector Calculus William Cox, 1998-05-01 Building on previous texts in the Modular Mathematics series in particular *Vectors in Two or Three Dimensions* and *Calculus and ODEs* this book introduces the student to the concept of vector calculus It provides an overview of some of the key techniques as well as examining functions of more than one variable including partial differentiation and multiple integration Undergraduates who already have a basic understanding of calculus and vectors will find this text provides tools with which to progress onto further studies scientists who need an overview of higher order differential equations will find it a useful introduction and basic reference

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The Shape of Algebra in the Mirrors of Mathematics Gabriel Katz, Vladimir Nodelman, 2012 The Shape of Algebra is the authors attempt to share their mathematical experiences with readers who have more than a passing interest in mathematics but have only a traditional exposure to elementary algebra Secondary school and college teachers and students who want to expand their horizons in the field will find a fresh presentation of familiar concepts and some unexpected results This book serves as a text for an appreciation course in modern mathematics designed for non mathematics majors or for first year students who are considering the possibility of studying mathematics or related disciplines It can also serve as a source of computer supported activities that could supplement traditional courses in algebra multivariable calculus and complex variable This book gives the reader a sense of the visual nature of mathematics Mathematical experiments with universal mapping software VisuMatica designed by Vladimir Nodelman form the very core of the book Readers are encouraged to reproduce play with and expand on these experiments Numerous problems are interspersed throughout the text to guide the reader Our treatment of standard algebra is visual and computational By introducing visual computational environments like VisuMatica our book promotes this geometric approach to algebra and makes it accessible to readers a great deal earlier The book will enable our readers to approach its content on three levels the first one which requires only some fluency with elementary algebraic manipulations the second one which also presumes familiarity with the notions of derivatives and tangent lines to plane curves and the third one which uses some basic concepts of multivariable calculus All three levels are clearly marked in the text and will allow for a smooth reading and virtual experiments regardless of the level that our readers will find comfortable

Finite-Dimensional Linear Algebra Mark S. Gockenbach, 2010-05-06 This text provides a solid foundation for the study of advanced mathematics and covers many interesting applications of linear algebra which show how linear algebra is essential in such diverse areas as combinatorics differential equations optimization and approximation The book discusses important concepts and methods from numerical linear algebra and contains a range of exercises in each

section including some that can be solved using a computer package such as MATLAB It also incorporates mini projects that encourage students to develop topics not covered in the text A forthcoming solutions manual is available for qualifying instructors

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Encyclopedia of Mathematics Education Louise Grinstein, Sally I. Lipsey, 2001-03-15 This single volume reference is designed for readers and researchers investigating national and international aspects of mathematics education at the elementary secondary and post secondary levels It contains more than 400 entries arranged alphabetically by headings of greatest pertinence to mathematics education The scope is comprehensive encompassing all major areas of mathematics education including assessment content and instructional procedures curriculum enrichment international comparisons and psychology of learning and instruction

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An Introduction to Partial Differential Equations with MATLAB Matthew P. Coleman, Vladislav Bukshtynov, 2024-08-01 The first two editions of An Introduction to Partial Differential Equations with MATLAB gained popularity among instructors and students at various universities throughout the world Plain mathematical language is used in a friendly manner to provide a basic introduction to partial differential equations PDEs Suitable for a one or two semester introduction to PDEs and Fourier series the book strives to provide physical mathematical and historical motivation for each topic Equations are studied based on method of solution rather than on type of equation This third edition of this popular textbook updates the structure of the book by increasing the role of the computational portion compared to previous editions The redesigned content will be extremely useful for students of mathematics physics and engineering who would like to focus on the practical aspects of the study of PDEs without sacrificing mathematical rigor The authors have maintained flexibility in the order of topics In addition students will be able to use what they have learned in some later courses for example courses in numerical analysis optimization and PDE based programming Included in this new edition is a substantial amount of material on reviewing computational methods for solving ODEs symbolically and numerically visualizing solutions of PDEs using MATLAB's symbolic programming toolbox and applying various schemes from numerical analysis along with suggestions for topics of course projects Students will use sample MATLAB or Python codes available online for their practical experiments and for completing computational lab assignments and course projects

A Guided Tour of Mathematical Methods for the Physical Sciences Roel Snieder, Kasper van Wijk, 2015-03-16 This completely revised edition provides a tour of the mathematical knowledge and techniques needed by students across the physical sciences There are new chapters on probability and statistics and on inverse problems It serves as a stand alone text or as a source of exercises and examples to complement other textbooks

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