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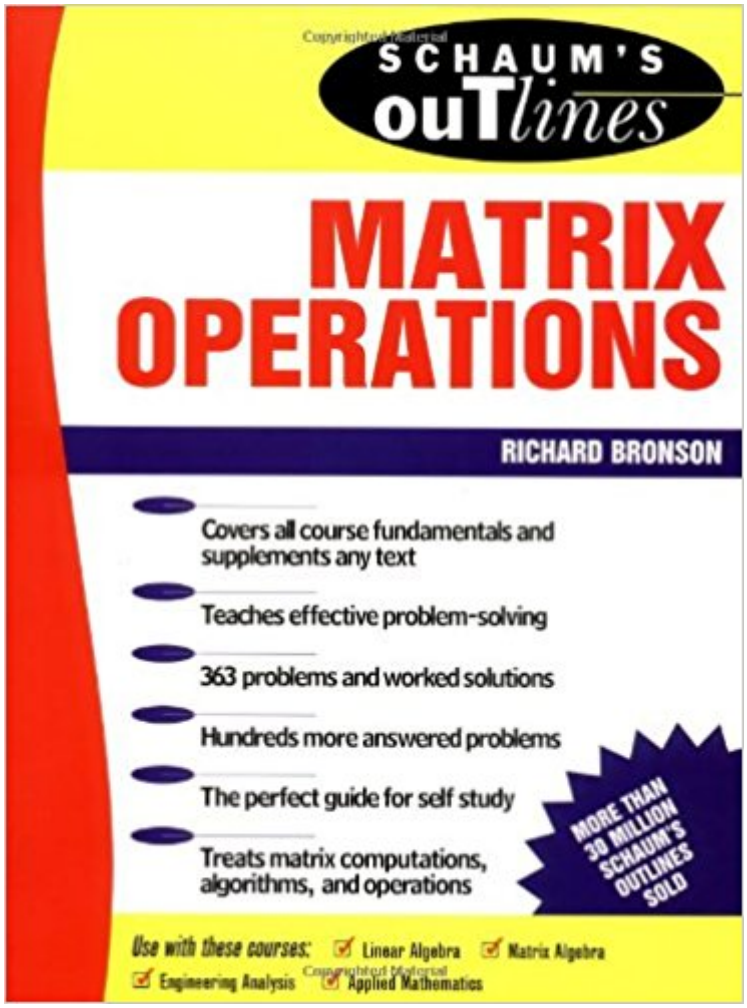
Schaum's Outline Of Theory And Problems Of Matrix Operations



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Matrices permeate modern industrial societies. There is hardly a single branch of science and engineering where they don't play an important role. From matrix (quantum) mechanics to marketing, from numerical analysis to neurosciences all depend, to some extent, on matrices to express their concepts. No wonder an authoritative and comprehensive book on elementary matrix theory was to be greatly desired. Many have been published over the years, but few worthy of note.Most physics and engineering students long for an easy-to-study math book to hone their

problem-solving skills. Professor Richard Branson’s book "Matrix Operations" helps them to do just that, and much more. His innovative algorithmic approach -concise and compact- to matrix theory demystify a subject that often haunts college students. Chapters follow a logical sequence where matrix algebra and matrix (numerical) methods live side by side in perfect harmony. Without losing sight of mathematical rigour, Professor Branson presents simultaneous linear equations, matrix inversion, eigenvalues and eigenvectors, inner products, canonical bases, similarity, Hermitian matrices, quadratic forms and the like in a most successful manner. His exposition of Jordan canonical forms (on pp.91-93, chapter 10), crÃƒÂ¨me de la crÃƒÂ¨me of the theory, is a jewel of simplicity (if the great French mathematician Camille Jordan were still alive he would certainly be proud of it). Rather involved topics such as the Cholesky decomposition, finite Markov chains, and Rayleigh’s principle were cut to the bone; and esoteric mathematical entities such as Gerschgorin disk (on page 170, chapter 19) rendered more tasteful to the palate through Branson’s magic touch. I wish a book like this had been available in my college years. Happiness came too late.

Thin book whos focus is more on "cookbook type operations" which its title aptly suggests. This book is aimed more at someone that already has a familiarity with linear algebra or maybe more aptly has a need to apply specific formulas from a handbook. IT IS NOT A COURSE IN LINEAR ALGEBRA NOR A BOOK FOR SOMEONE THAT DOES NOT ALREADY KNOW ENOUGH LINEAR ALGEBRA, so if your need is a beginning course then get Scaum’s Beginning Linear Algebra book as it is an excellent place to start.The book arrived on time & in good shape.

This book got me through a course in numerical methods. It was extremely helpful. It can be a bit terse at times, but that’s the nature of such an outlines book. I really like how algorithms are laid out in this text. I recommend Schaum’s outlines to others all the time... this one is no exception.

One of the best value for the money. It doesn’t run you into anything complex expecting you to have half a dozen other references to help you comprehend.

Good book. Clear and easy to understand examples.

EXCELLENT

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