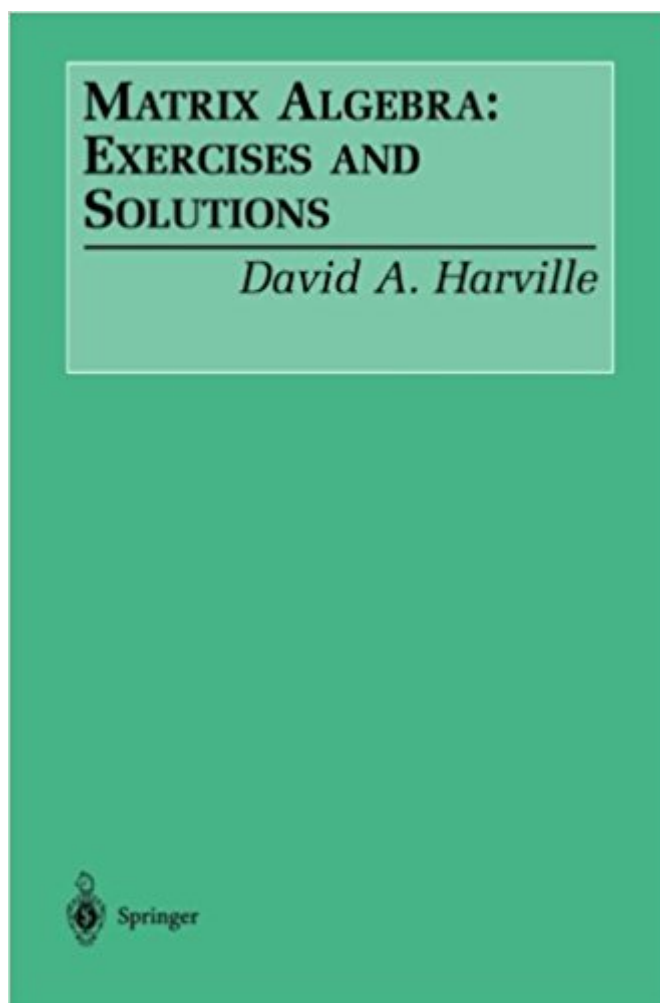


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# Matrix Algebra: Exercises And Solutions



## Synopsis

This book contains over 300 exercises and solutions that together cover a wide variety of topics in matrix algebra. They can be used for independent study or in creating a challenging and stimulating environment that encourages active engagement in the learning process. The requisite background is some previous exposure to matrix algebra of the kind obtained in a first course. The exercises are those from an earlier book by the same author entitled *Matrix Algebra From a Statistician's Perspective*. They have been restated (as necessary) to stand alone, and the book includes extensive and detailed summaries of all relevant terminology and notation. The coverage includes topics of special interest and relevance in statistics and related disciplines, as well as standard topics. The overlap with exercises available from other sources is relatively small. This collection of exercises and their solutions will be a useful reference for students and researchers in matrix algebra. It will be of interest to mathematicians and statisticians.

## Book Information

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## Customer Reviews

From the reviews of the first edition: JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION "This book is written as a companion to his earlier book titled *MATRIX ALGEBRA FROM A STATISTICIAN'S PERSPECTIVE*—this is not just a solutions manual. With 15 pages of definitions and terminology and another 5 pages of notations, the book can be used as an independent reader on advanced topics in linear algebra—when used in conjunction with his earlier book, provides a more in-depth second course on this topic." "This book collects the

exercises from the author's perspective, (Springer 1997) and includes their solutions. It can be used as a stand-alone book with an inspiring collection of exercises." (Adhemar Bultheel, Simon Stevin Bulletin, Vol. 10 (2), 2003) "The author has collected well over 300 exercises from his earlier book Matrix Algebra From a Statistician's Perspective into a separate volume and he added solutions. The book also contains extensive and detailed summaries of the relevant terminology and notation. It will be very useful for any teacher of a linear algebra course as a source of exercises of various levels of difficulty." (European Mathematical Society Newsletter, December, 2003) "This book comprises well over 300 exercises in (real) matrix algebra and their solutions. It represents a valuable resource for any reader trying to gain some practice in the concepts of matrix algebra and looking for suitable exercises accompanied by solutions." (A. Kröner, Internationale Mathematische Nachrichten, Vol. 57 (193), 2003) "This book is a supplement to the author's previous book (Harville 1997) and contains the solutions to more than three-hundred exercises taken from it. This book is especially useful for anyone interested in dealing with proof techniques and tricks concerning matrix algebra. For everybody who finds pleasure in reading and learning from Harville's text, this book will have a similar effect and should be viewed as a very useful supplement." (Jürgen Groß, Statistical Papers, Vol. 43 (4), 2002)

Survived Matrix Analysis because of this book! Took a grad school course, and used this book quite extensively...

This book is a companion text to the author's main text on Matrix Algebra. The only way to master matrix algebra is by working through exercises. Most texts have exercises, but few offer solutions. Harville's main text is great because it offers proofs for most theorems. Others are left as an exercise. If we get stuck, we can check the solutions for these results and many more.

The book consists of a seemingly endless number of exercises whose solutions give little or no insight into the structure underlying the problems. The final result is that you are no smarter at the end than at the beginning.

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