



# Generalized Inverses: Theory and Applications (CMS Books in Mathematics)

By Adi Ben-Israel, Thomas N.E. Greville

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This second edition accounts for many major developments in generalized inverses while maintaining the informal and leisurely style of the 1974 first edition. Added material includes a chapter on applications, new exercises, and an appendix on the work of E.H. Moore.

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## Editorial Review

### Review

From the reviews of the second edition:

"The book under review which is the second edition of the 30 years ago published one provides a detailed survey of generalized inverses and their main properties . . . An important feature of this book is the over 600 exercises . . . Each chapter ends with the section 'Suggested further reading'. These sections provide excellent additional references on topics treated . . . it can be used profitably by graduate or advanced undergraduate students of mathematics and computer science, and by PhD students . . ." (Róbert Rajkó, *Acta Scientiarum Mathematicarum*, Vol. 71, 2005)

"Each chapter is accompanied by suggestions for further reading, while the bibliography contains 901 references. . . The book contains 450 exercises at different levels of difficulty, many of which are solved in detail. This feature makes it suitable either for reference and self-study or for use as a classroom text. It can be used profitably by graduate students or advanced undergraduate students . . ." (Nicholas Karampetakis, *Zentralblatt MATH*, Vol. 1026, 2004)

### From the Back Cover

The field of generalized inverses has grown much since the appearance of the first edition in 1974, and is still growing. This book accounts for these developments while maintaining the informal and leisurely style of the first edition. New material has been added, including many theoretical results, computational methods, applications, examples and exercises, and an appendix on the work of E.H. Moore.

Adi Ben-Israel is Professor of Operations Research, Business and Mathematics at Rutgers University, New Brunswick, NJ. Previously he was Professor of Applied Mathematics at the University of Delaware, Northwestern University, and the Technion-Israel Institute of Technology.

The late Thomas N.E. Greville was Professor of Mathematics, and a member of the US Army Mathematics Research Center at the University of Wisconsin, Madison, WI.

The authors contributed to the theory, computation and applications of generalized inverses, and did much to popularize the field in the first edition.

### About the Author

Adi Ben-Israel is Professor of Operations Research, Business and Mathematics at Rutgers University, New Brunswick, NJ. Previously he was Professor of Applied Mathematics at the University of Delaware, Northwestern University, and the Technion-Israel Institute of Technology.

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