

## Books on Linear Algebra and Related Topics Published in 2002–2010

The list below is a continuation of the list of “New & Forthcoming Publications in Linear Algebra” initiated in issue 14 of *Image* and run throughout issues 15–18, 20–23, and 26–29. Whenever obtainable, the references to MR (MathSciNet/Mathematical Review), Zbl (Zentralblatt MATH), and to the book reviews published in *Image* are provided. Please send corrections and additions to Oskar Baksalary at [baxx@amu.edu.pl](mailto:baxx@amu.edu.pl)

- K.M. Abadir & J.R. Magnus (2005). *Matrix Algebra*. Cambridge University Press: xxx+434 pp., ISBN-10: 0521822890; ISBN-13: 978-0521822893. [MR2408356 (2009d:15001)]
- P.-A. Absil, R. Mahony & R. Sepulchre (2008). *Optimization Algorithms on Matrix Manifolds*. Princeton University Press: 240 pp., ISBN-13: 978-1400830244.
- M.A. Akcoglu, P.F.A. Barthia & D.M. Ha (2009). *Analysis in Vector Spaces*. Wiley: 480 pp., ISBN-13: 978-0470148242.
- M.A. Akivis & V.V. Goldberg (2010). *An Introduction to Linear Algebra and Tensors*, 1972 edition translated and edited by R.A. Silverman. Dover: 174 pp., ISBN-10: 0486635457; ISBN-13: 978-0486635453.
- M.A. Akivis & V.V. Goldberg (2003). *Tensor Calculus with Applications*, translated from the 1969 Russian original by V.V. Goldberg [MR0360619]. World Scientific: xii+367 pp., ISBN-10: 9812385061; ISBN-13: 978-9812385062. [MR2015466]
- H. Anton (2005). *Elementary Linear Algebra*, 9th edition. Wiley: 624 pp., ISBN-10: 0471669601; ISBN-13: 978-0471669609.
- H. Anton & R.C. Busby (2003). *Contemporary Linear Algebra*. Wiley: 656 pp., ISBN-13: 978-0471163626.
- H. Anton & C. Rorres (2011). *Elementary Linear Algebra with Supplemental Applications, International Student Version*, 10th edition. Wiley: 848 pp., ISBN-13: 978-0470561577.
- S. Axler (2004). *Linear Algebra Done Right*, 2nd edition. Springer: 272 pp., ISBN-10: 0387982582; ISBN-13: 978-0387982588.

- J.A. Ball, Y. Eidelman, J.W. Helton, V. Olshevsky & J. Rovnyak, eds. (2007). *Recent Advances in Matrix and Operator Theory*. Birkhäuser: vii+338 pp., ISBN-10: 3764385383; ISBN-13: 978-3764385385.
- S. Banerjee & A. Roy (2011). *Linear Algebra and Matrix Computations for Statistics*. Chapman & Hall/CRC: 416 pp., ISBN-10: 1420095382; ISBN-13: 978-1420095388.
- R.B. Bapat (2010). *Graphs and Matrices*. Springer: 171 pp., ISBN-13: 978-1848829800.
- H. Bart, I. Gohberg, M.A. Kaashoek & A.C.M. Ran (2010). *A State Space Approach to Canonical Factorization with Applications*. Birkhäuser: 432 pp., ISBN-13: 978-3764387525.
- H. Bart, T. Hempfling & M.A. Kaashoek, eds. (2008). *Israel Gohberg and Friends*. Birkhäuser: 324 pp., ISBN-13: 978-3764387334.
- A. Basilevsky (2005). *Applied Matrix Algebra in the Statistical Sciences*, reprint of the 1983 edition. Dover: 416 pp., ISBN-10: 0486445380; ISBN-13: 978-0486445380.
- M. Bebendorf (2008). *Hierarchical Matrices: A Means to Efficiently Solve Elliptic Boundary Value Problems*. Springer: xvi+290 pp., ISBN-13: 978-3540771463. [MR2451321 (2009k:15001, E. Pelican)]
- A. Berman & N. Shaked-Monderer (2003). *Completely Positive Matrices*. World Scientific: x+206 pp., ISBN-10: 9812383689; ISBN-13: 978-9812383686.
- D.S. Bernstein (2009). *Matrix Mathematics: Theory, Facts, and Formulas*, 2nd edition. Princeton University Press: xxxix+1139 pp., ISBN-10: 0691140391; ISBN-13: 978-0691140391. [Reviewed in Image 43 by H. Lütkepohl]
- R. Bhatia (2007). *Perturbation Bounds for Matrix Eigenvalues*. SIAM: xvi+191 pp., ISBN-10: 0898716314; ISBN-13: 978-0898716313.
- R. Bhatia (2007). *Positive Definite Matrices*. Princeton University Press: ix+254 pp., ISBN-10: 0691129185; ISBN-13: 978-0691129181. [Reviewed in Image 41 by D. Farenick] [MR2284176 (2007k:15005, R.L. Smith)]
- T.S. Blyth & E.F. Robertson (2002). *Further Linear Algebra*. Springer: vi+230 pp., ISBN-10: 1852334258; ISBN-13: 978-1852334253. [MR1864441]

- M.R. Boelkins, J.L. Goldberg & M.C. Potter (2009). *Differential Equations with Linear Algebra*. Oxford University Press: 572 pp., ISBN-13: 978-0195385861.
- A. Böttcher & S.M. Grudsky (2005). *Spectral Properties of Banded Toeplitz Matrices*. SIAM: x+411 pp., ISBN-10: 0898715997; ISBN-13: 978-0898715996.
- O. Bretscher (2008). *Linear Algebra with Applications*, 4th edition. Prentice Hall: 504 pp., ISBN-10: 0136009263; ISBN-13: 978-0136009269.
- R. Bronson & G.B. Costa (2009). *Matrix Methods: Applied Linear Algebra*, 3rd edition. Academic Press: 432 pp., ISBN-13: 978-0123744272.
- R.A. Brualdi (2006). *Combinatorial Matrix Classes*. Cambridge University Press: x+544 pp., ISBN-10: 0521865654; ISBN-13: 978-0521865654.
- R.A. Brualdi (2009). *Introductory Combinatorics*, 5th edition. Prentice Hall: 648 pp., ISBN-10: 0136020402; ISBN-13: 978-0136020400. [Reviewed in Image 44 by J.L. Stuart]
- R.A. Brualdi & D. Cvetkovic (2008). *A Combinatorial Approach to Matrix Theory and its Applications*. Chapman & Hall/CRC: 288 pp., ISBN-10: 142008223X; ISBN-13: 978-1420082234. [Reviewed in Image 45 by W. So]
- R.A. Brualdi & B.L. Shader (2009). *Matrices of Sign-Solvable Linear Systems*. Cambridge University Press: 316 pp., ISBN-10: 052110582X; ISBN-13: 978-0521105828.
- R. Butt (2008). *Introduction to Applied Linear Algebra with MATLAB*. Heldermann: xiv+517 pp., ISBN-13: 978-3885384076. [MR2413930 (2009f:15002)]
- G. Buzzi-Ferraris & F. Manenti (2010). *Fundamentals and Linear Algebra for the Chemical Engineer: Solving Numerical Problems*. Wiley: 375 pp., ISBN-13: 978-3527325528.
- P.J. Cameron (2007). *Introduction to Algebra*, 2nd edition. Oxford University Press: x+342 pp., ISBN-10: 0198527934; ISBN-13: 978-0198527930. [Zbl 1137.00001 (W. Kleinert)]
- S.L. Campbell & C.D. Meyer (2008). *Generalized Inverses of Linear Transformations*. SIAM: xx+272 pp., ISBN-10: 0898716713; ISBN-13: 978-0898716719.
- D. Carlson, C.R. Johnson, D.C. Lay & A.D. Porter, eds. (2002). *Linear Algebra Gems: Assets for Undergraduate Mathematics*. MAA: 342 pp., ISBN-10: 0883851709; ISBN-13: 978-0883851708.

- J.B. Conrey, D.W. Farmer, F. Mezzadri & N.C. Snaith, eds. (2007). *Ranks of Elliptic Curves and Random Matrix Theory*. Cambridge University Press: vi+361 pp., ISBN-10: 0521699649; ISBN-13: 978-0521699648.
- B. Cooperstein (2010). *Advanced Linear Algebra*. Chapman & Hall/CRC: xviii+364 pp., ISBN-10: 1439829667; ISBN-13: 978-1439829660. [MR2666116]
- M.J. Corless & A. Frazho (2003). *Linear Systems and Control: An Operator Perspective*. Chapman & Hall/CRC: 368 pp., ISBN-10: 082470729X; ISBN-13: 978-0824707293.
- M.T. Chu & G.H. Golub (2005). *Inverse Eigenvalue Problems: Theory, Algorithms, and Applications*. Oxford University Press: xvii+387 pp., ISBN-10: 0198566646; ISBN-13: 978-0198566649.
- C. Daizhan (2002). *Matrix and Polynomial Approach to Dynamic Control Systems*. Science Press: 348 pp., ISBN-10: 7030098730.
- B.N. Datta (2010). *Numerical Linear Algebra and Applications*, 2nd edition. SIAM: xxiv+530 pp., ISBN-13: 978-0898716856. [1st edition reviewed in Image 21 by J.R. Bunch]
- J. DeFranza & D. Gagliardi (2008). *Introduction to Linear Algebra*. McGraw-Hill: 416 pp., ISBN-10: 0073532355; ISBN-13: 978-0073532356.
- J. Derbyshire (2006). *The Unknown Quantity: A Real and Imaginary History of Algebra*. John Henry Press: 390 pp., ISBN-10: 030909657X; ISBN-13: 978-0309096577. [Reviewed in Image 38 by J.L. Stuart]
- S.A. Dianat & E. Saber (2009). *Advanced Linear Algebra for Engineers with MATLAB*. Chapman & Hall/CRC: 346 pp., ISBN-10: 1420095234; ISBN-13: 978-1420095234.
- J. Ding & A. Zhou (2009). *Nonnegative Matrices, Positive Operators, and Applications*. World Scientific: 364 pp., ISBN-10: 9812839178; ISBN-13: 978-9812839176.
- H. Dym (2007). *Linear Algebra in Action*. AMS: xvi+541 pp., ISBN-10: 082183813X; ISBN-13: 978-0821838136. [Reviewed in Image 44 by D. Farenick] [MR2289254 (2007m:15001, J.A. Ball)]
- H. Edwards (2004). *Students' Solutions Manual for Differential Equations and Linear Algebra*, 2nd edition. Prentice Hall: 338 pp., ISBN-10: 0131482513; ISBN-13: 978-0131482517.
- C.H. Edwards & D.E. Penney (2010). *Differential Equations and Linear Algebra*, 3rd edition. Pearson: 792 pp., ISBN-10: 0136054250; ISBN-13: 978-0136054252.

- L. Eldén (2007). *Matrix Methods in Data Mining and Pattern Recognition*. SIAM: x+224 pp., ISBN-10: 0898716268; ISBN-13: 978-0898716269. [MR2314399 (2008d:15001)]
- G. Farin & D. Hansford (2004). *Practical Linear Algebra: A Geometry Toolbox*. A K Peters: 394 pp., ISBN-10: 1568812345; ISBN-13: 978-1568812342.
- J. Farlow, J.E. Hall, J.M. McDill & B.H. West (2007). *Differential Equations and Linear Algebra*, 2nd edition. Pearson: 800 pp., ISBN-10: 0131860615; ISBN-13: 978-0131860612.
- M.C. Ferris, O.L. Mangasarian & S.J. Wright (2008). *Linear Programming with MATLAB*. Cambridge University Press: xii+266 pp., ISBN-10: 0898716438; ISBN-13: 978-0898716436.
- M. Fiedler (2008). *Special Matrices and Their Applications in Numerical Mathematics*, reprint of the revised and corrected 2nd (1986) edition. Dover: 384 pp., ISBN-10: 0486466752; ISBN-13: 978-0486466750.
- P.E. Fishback (2009). *Linear and Nonlinear Programming with Maple: An Interactive, Applications-Based Approach*. Chapman & Hall/CRC: 413 pp., ISBN-10: 142009064X; ISBN-13: 978-1420090642.
- S.H. Friedberg, A.J. Insel & L.E. Spence (2002). *Linear Algebra*, 4th edition. Prentice Hall: 601 pp., ISBN-10: 0130084514; ISBN-13: 978-0130084514.
- A. Galántai (2003). *Projectors and Projection Methods*. Springer: 297 pp., ISBN-10: 1402075723; ISBN-13: 978-1402075728.
- J.E. Gentle (2007). *Matrix Algebra: Theory, Computations, and Applications in Statistics*. Springer: xxii+528 pp., ISBN-10: 0387708723; ISBN-13: 978-0387708720. [MR2337395 (2008d:15002, C. Ilioi)]
- J. Gilbert & L. Gilbert (2005). *Linear Algebra and Matrix Theory*, 2nd edition. Thomson Brooks/Cole: 544 pp., ISBN-10: 0534405819; ISBN-13: 978-0534405816.
- M.S. Gockenbach (2010). *A Finite-Dimensional Linear Algebra*. Chapman & Hall/CRC: xii+650 pp., ISBN-10: 1439815631; ISBN-13: 978-1439815632. [MR2647742]
- I. Gohberg, P. Lancaster & L. Rodman (2005). *Indefinite Linear Algebra and Applications*. Birkhäuser: 357 pp., ISBN-10: 3764373490; ISBN-13: 978-3764373498. [MR2186302 (2006j:15001, H. Havlicek)]

- I. Gohberg, P. Lancaster & L. Rodman (2006). *Invariant Subspaces of Matrices with Applications*, 2nd edition. SIAM: xxii+692 pp., ISBN-10: 089871608X; ISBN-13: 978-0898716085. [MR2228089 (2007k:15001, E. Azoff)]
- I. Gohberg, P. Lancaster & L. Rodman (2009). *Matrix Polynomials*. SIAM: xxiv+409 pp., ISBN-13: 978-0898716818.
- J.S. Golan (2007). *The Linear Algebra a Beginning Graduate Student Ought to Know*, 2nd edition. Springer: xii+435 pp., ISBN-10: 1402054947; ISBN-13: 978-1402054945. [1st edition reviewed in Image 33 by S. Hobart] [MR2278380 (2007h:15001)]
- G.H. Golub & G. Meurant (2009). *Matrices, Moments and Quadrature with Applications*. Princeton University Press: 376 pp., ISBN-13: 978-1400833887.
- S.W. Goode & S.A. Annin (2008). *Differential Equations and Linear Algebra*, 3rd edition. Pearson: 816 pp., ISBN-10: 0130457949; ISBN-13: 978-0130457943.
- Y.Q. Guo, K.P. Shum & G.T. Xu (2007). *Linear Algebra*, translated from the Chinese by K.P. Tum. Science Press: 410 pp., ISBN-13: 978-7030188885.
- K. Hardy (2005). *Linear Algebra for Engineers and Scientists Using Matlab*. Pearson: 504 pp., ISBN-10: 0139067280; ISBN-13: 978-0139067280.
- R. Hart (2010). *The Chinese Roots of Linear Algebra*. Johns Hopkins University Press: 288 pp., ISBN-13: 978-0801897559.
- D.J. Hartfiel (2002). *Nonhomogeneous Matrix Products*. World Scientific: x+224 pp., ISBN-10: 9810246285. [MR1878339 (2002m:15001, E. Seneta)]
- D.A. Harville (2008). *Matrix Algebra from a Statistician's Perspective*, 2nd print edition. Springer: xvi+634 pp., ISBN-10: 0387783563; ISBN-13: 978-0387783567. [1st edition reviewed in Image 22 by J. Groß] [Zbl 1142.15001]
- A.K. Hazra (2007). *Matrix: Algebra, Calculus and Generalized Inverse, (Vol. I)*. Cambridge International Science Publishing: xxvii+559 pp., ISBN-10: 1898326541; ISBN-13: 978-1898326540. [Title on cover: *Matrix: Algebra, Calculus and Generalised Inverse, Part I*]

- A.K. Hazra (2007). *Matrix: Algebra, Calculus and Generalized Inverse, (Vol. II)*. Cambridge International Science Publishing: xx+561–1046 pp., ISBN-10: 1904602584; ISBN-13: 978-1904602583. [Title on cover: *Matrix: Algebra, Calculus and Generalised Inverse, Part II*]
- E.A. Herman (2005). *Visual Linear Algebra with Tutorial CD and Student Solutions Manual Set*. Wiley: 550 pp., ISBN-10: 0470083301; ISBN-13: 978-0470083307.
- E.A. Herman & M.D. Pepe (2005). *Visual Linear Algebra*. Wiley: 550 pp., ISBN-13: 978-0471682998.
- N.J. Higham (2008). *Functions of Matrices: Theory and Computation*. SIAM: xx+425 pp., ISBN-10: 0898716462; ISBN-13: 978-0898716467. [MR2396439 (2009b:15001, D. Kressner)]
- D. Hill & D. Zitarelli (2003). *Linear Algebra Labs with MATLAB*, 3rd edition. Pearson: 336 pp., ISBN-10: 0131432745; ISBN-13: 978-0131432741.
- L. Hogben, ed. (2006). *Handbook of Linear Algebra*. Chapman & Hall/CRC: xxxiii+1400 pp., ISBN-10: 1584885106; ISBN-13: 978-1584885108. [Reviewed in Image 37 by R. Horn]
- F.E. Hohn (2002). *Elementary Matrix Algebra*, reprint of the 3rd (1973) edition. Dover: xviii+522 pp., ISBN-10: 0486425347. [MR1964535]
- I.C.F. Ipsen (2009). *Numerical Matrix Analysis: Linear Systems and Least Squares*. SIAM: xiv+128 pp., ISBN-10: 0898716764; ISBN-13: 978-0898716764.
- S.K. Jain & A.D. Gunawardena (2003). *Linear Algebra: An Interactive Approach*. Thomson Brooks/Cole: 480 pp., ISBN-10: 0534409156; ISBN-13: 978-0534409159.
- A. Jeffrey (2010). *Matrix Operations for Engineers and Scientists*. Springer: 278 pp., ISBN-13: 978-9048192731.
- X.-Q. Jin (2002). *Developments and Applications of Block Toeplitz Iterative Solvers*. Science Press and Kluwer Academic Publishers: xiii+218 pp., ISBN-10: 7030107195 (Science Press); ISBN-10: 1402008309; ISBN-13: 978-1402008306 (Kluwer Academic Publishers). [Reviewed in Image 31 by Y. Wei]
- X.-Q. Jin & Y.-M. Wei (2004). *Numerical Linear Algebra*. Science Press: vii+174 pp., ISBN-10: 7030139542. [Reviewed in Image 35 by A. Sidi]

- I. Kaplansky (2003). *Linear Algebra and Geometry: A Second Course*, reprint of the 1974 revised edition. Dover: xiv+143 pp., ISBN-10: 0486432335; ISBN-13: 978-0486432335. [MR2001037 (2004c:15001)]
- Y. Katznelson & Y.R. Katznelson (2008). *A (Terse) Introduction to Linear Algebra*. AMS: x+215 pp., ISBN-10: 0821844199; ISBN-13: 978-0821844199. [MR2374064 (2008j:15001), Zbl 1141.15001 (R. von Randow)]
- M.E. Kilmer & D.P. O'Leary, eds. (2010). *G.W. Stewart: Selected Works with Commentaries*. Springer: 760 pp., ISBN-13: 978-0817649678.
- L.E. Knop (2008). *Linear Algebra: A First Course with Applications*. Chapman & Hall/CRC: xx+725 pp., ISBN-10: 1584887826; ISBN-13: 978-1584887829. [MR2440472 (2009g:15001)]
- B. Kolman & D. Hill (2007). *Elementary Linear Algebra with Applications*, 9th edition. Prentice Hall: 720 pp., ISBN-10: 0132296543; ISBN-13: 978-0132296540.
- J.H. Kwak & S. Hong (2004). *Linear Algebra*, 2nd edition. Birkhäuser: xvi+390 pp., ISBN-10: 0817642943; ISBN-13: 978-0817642945. [MR2047456]
- S. Lang (2004). *Linear Algebra*, 3rd edition. Springer: 296 pp., ISBN-10: 0387964126; ISBN-13: 978-0387964126.
- R. Larson, B.H. Edwards & D.C. Falvo (2009). *Elementary Linear Algebra*, 6th edition. Thomson Brooks/Cole: 560 pp., ISBN-10: 0618783768; ISBN-13: 978-0618783762.
- A.J. Laub (2005). *Matrix Analysis for Scientists & Engineers*. SIAM: xiv+157 pp., ISBN-10: 0898715768; ISBN-13: 978-0898715767. [MR2128817]
- P.D. Lax (2007). *Linear Algebra and its Applications*, enlarged 2nd edition. Wiley-Interscience: xvi+376 pp., ISBN-10: 0471751561; ISBN-13: 978-0471751564. [MR2356919 (2008j:15002)]
- D.C. Lay (2005). *Linear Algebra and its Applications*, 3rd updated edition. Addison Wesley: 576 pp., ISBN-10: 0321287134; ISBN-13: 978-0321287137.
- D.C. Lay (2005). *Supplement: Student Study Guide Update - Linear Algebra and its Applications Update*, 3rd edition. Addison Wesley: 450 pp., ISBN-10: 0321280660; ISBN-13: 978-0321280664.
- S.J. Leon (2010). *Linear Algebra with Applications*, 8th edition. Pearson: 552 pp., ISBN-10: 0136009298; ISBN-13: 978-0136009290.

- R.A. Liebler (2003). *Basic Matrix Algebra with Algorithms and Applications*. Chapman & Hall/CRC: xvi+242 pp., ISBN-10: 1584883332; ISBN-13: 978-1584883333. [MR1955686]
- I.-H. Lin (2005). *Geometric Linear Algebra, Vol. 1*. World Scientific: xxiii+856 pp., ISBN-10: 9812561323; ISBN-13: 978-9812561329. [MR2263947 (2007e:15001)]
- I.-H. Lin (2008). *Geometric Linear Algebra, Vol. 2*. World Scientific: xxvi+806 pp., ISBN-10: 9812707751; ISBN-13: 978-9812707758. [MR2431577 (2009f:15001)]
- H. Liping (2006). *Geometry of Matrices over Ring*. Science Press: 323 pp., ISBN-10: 7030169824.
- S. Lipschutz & M. Lipson (2008). *Schaum's Outline of Linear Algebra*, 4th edition. McGraw-Hill: 432 pp., ISBN-10: 007154352X; ISBN-13: 978-0071543521.
- J. Maloney (2005). *Maple Supplement for Linear Algebra*. Pearson: 192 pp., ISBN-10: 0131453378; ISBN-13: 978-0131453371.
- J. Matoušek (2010). *Thirty-three Miniatures: Mathematical and Algorithmic Applications of Linear Algebra*. AMS: x+182 pp., ISBN-10: 0821849778; ISBN-13: 978-0821849774. [MR2656313]
- D. McMahon (2005). *Linear Algebra Demystified*. McGraw-Hill: 255 pp., ISBN-10: 0071465790; ISBN-13: 978-0071465793.
- S.K. Mitra, P. Bhimasankaram & S.B. Malik (2010). *Matrix Partial Orders, Shorted Operators and Applications*. World Scientific: xvii+446 pp., ISBN-10: 9812838449; ISBN-13: 978-9812838445.
- M. Nakahara & T. Ohmi (2008). *Quantum Computing: From Linear Algebra to Physical Realizations*. Chapman & Hall/CRC: 440 pp., ISBN-10: 0750309830; ISBN-13: 978-0750309837.
- A. Niknejad & S. Friedland (2009). *Applications of Linear Algebra to DNA Microarrays*. VDM Verlag Dr Müller: 76 pp., ISBN-10: 3639179943; ISBN-13: 978-3639179941.
- D.G. Northcott (2009). *Multilinear Algebra*. Cambridge University Press: 208 pp., ISBN-10: 0521090601; ISBN-13: 978-0521090605.
- V. Olshevsky & E. Tyrtyshnikov, eds. (2010). *Matrix Methods: Theory, Algorithms and Applications*. World Scientific: 604 pp., ISBN-10: 9812836012; ISBN-13: 978-9812836014.
- P.J. Olver & C. Shakiban (2005). *Applied Linear Algebra*. Prentice Hall: xxii+714 pp., ISBN-10: 0131473824; ISBN-13: 978-0131473829. [MR2127863]

- R. Penney (2008). *Linear Algebra. Ideas and Applications*, 3rd edition. Wiley: xvi+480 pp., ISBN-10: 0470178841; ISBN-13: 978-0470178843. [MR2426603 (2009e:15001)]
- G.L. Peterson & J.S. Sochacki (2007). *Linear Algebra and Differential Equations*. Pearson: 480 pp., ISBN-10: 0201662124; ISBN-13: 978-0201662122.
- R. Piziak & P.L. Odell (2007). *Matrix theory: From Generalized Inverses to Jordan Form*. Chapman & Hall/CRC: xix+548 pp., ISBN-10: 1584886250; ISBN-13: 978-1584886259. [MR2292386 (2007k:15002)]
- D. Poole (2006). *Linear Algebra: A Modern Introduction (with CD-ROM)*, 2nd edition. Thomson/Brooks Cole: 736 pp. ISBN-10: 0534998453; ISBN-13: 978-0534998455.
- D. Poole (2006). *Student Solutions Manual for Poole's Linear Algebra: A Modern Introduction*, 2nd edition. Brooks Cole: 592 pp., ISBN-10: 0534998585; ISBN-13: 978-0534998585.
- F. Pukelsheim (2006). *Optimal Design of Experiments*. SIAM: xxxii+454 pp., ISBN-10: 0898716047; ISBN-13: 978-0898716047.
- M. Rahman & I. Mulolani (2008). *Applied Vector Analysis*, 2nd edition. CRC Press: xv+357 pp., ISBN-10: 1420051709; ISBN-13: 978-1420051704. [Zbl 1128.53001 (K.C. Rao)]
- H. Ricardo (2009). *A Modern Introduction to Linear Algebra*. Chapman & Hall/CRC: xvi+654 pp., ISBN-10: 1439800405; ISBN-13: 978-1439800409. [MR2562684]
- L. Robbiano (2010). *Linear Algebra for Everyone*, 2nd edition. Springer: 235 pp., ISBN-13: 978-8847018389.
- A.M. Robert (2005). *Linear Algebra Examples and Applications*. World Scientific: 388 pp., ISBN-10: 9812564322; ISBN-13: 978-9812564320.
- D.J.S. Robinson (2006). *A course in Linear Algebra with Applications*, 2nd edition. World Scientific: xvi+436 pp., ISBN-10: 9812700234; ISBN-13: 978-9812700230. [MR2307841 (2007k:15003)]
- S. Roman (2007). *Advanced Linear Algebra*, 3rd edition. Springer: 526 pp., ISBN-10: 0387728287; ISBN-13: 978-0387728285. [MR2344656 (2008f:15002)]
- H.E. Rose (2002). *Linear Algebra: A Pure Mathematical Approach*. Birkhäuser: xiv+250 pp., ISBN-10: 3764369051; ISBN-13: 978-3764369057. [MR1935512 (2003f:15001)]

- J.R. Ruíz-Tolosa & E. Castillo (2005). *From Vectors to Tensors*. Springer: xvi+670 pp., ISBN-10: 354022887X; ISBN-13: 978-3540228875. [MR2111360 (2005g:15001)]
- V.N. Sachkov & V.E. Tarakanov (2002). *Combinatorics of Nonnegative Matrices*, translated from the 2000 Russian original by V.F. Kolchin. AMS: x+269 pp., ISBN-10: 082182788X. [MR1905938 (2003e:15001, D.J. Hartfiel)]
- L. Sadun (2008). *Applied Linear Algebra: The Decoupling Principle*, 2nd edition. AMS: xviii+371 pp., ISBN-10: 0821844415; ISBN-13: 978-0821844410. [MR2370145 (2008j:15003); Zbl 1140.15001 (A. Bultheel)]
- W.W. Sawyer (2009). *An Engineering Approach to Linear Algebra*. Cambridge University Press: 316 pp., ISBN-10: 0521093333; ISBN-13: 978-0521093330. [Zbl 1154.00003]
- B. Schipp & W. Krämer, eds. (2008). *Statistical Inference, Econometric Analysis and Matrix Algebra. Festschrift in Honour of Götz Trenkler*. Springer: xviii+434 pp., ISBN-13: 978-3790821208.
- J.R. Schott (2005). *Matrix Analysis for Statistics*, 2nd edition. Wiley-Interscience: xvi+456 pp. ISBN-10: 0471669830; ISBN-13: 978-0471669838. [MR2111601 (2005h:15001)]
- S.R. Searle (2006). *Matrix Algebra Useful for Statistics*, reprint of the 1982 original. Wiley-Interscience: xxiv+438 pp., ISBN-10: 0470009616; ISBN-13: 978-0470009611. [MR2298494 (2007k:15004)]
- G.A.F. Seber (2007). *A Matrix Handbook for Statisticians*. Wiley: xix+559 pp., ISBN-10: 0471748692; ISBN-13: 978-0471748694.
- D. Serre (2010). *Matrices: Theory and Applications*, 2nd edition. Springer: 224 pp., ISBN-10: 1441930108; ISBN-13: 978-1441930101. [1st edition: MR1923507 (2003h:15001, R.J. Bumcrot)]
- G. Sewell (2005). *Computational Methods of Linear Algebra*, 2nd edition. Wiley: 288 pp., ISBN-13: 978-0471735793.
- T.S. Shores (2007). *Applied Linear Algebra and Matrix Analysis*. Springer: xii+383 pp., ISBN-10: 0387331956; ISBN-13: 978-0387331959. [MR2272650 (2007h:15002)]
- D. Skillicorn (2007). *Understanding Complex Datasets: Data Mining with Matrix Decompositions*. Chapman & Hall/CRC: 258 pp., ISBN-10: 1584888326; ISBN-13: 978-1584888321.

- L.E. Spence, A.J. Insel & S.H. Friedberg (2007). *Elementary Linear Algebra: A Matrix Approach*, 2nd edition. Prentice Hall: 656 pp., ISBN-10: 0131871412; ISBN-13: 978-0131871410.
- K.N. Srinivasa Rao (2006). *Linear Algebra and Group Theory for Physicists*, 2nd edition. AMS: 608 pp., ISBN-10: 818593164X; ISBN-13: 978-8185931647.
- W.-H. Steeb (2006). *Problems and Solutions in Introductory and Advanced Matrix Calculus*. World Scientific: x+239 pp., ISBN-10: 9812702024; ISBN-13: 978-9812702029.
- M.J. Sterling (2009). *Linear Algebra For Dummies*. Wiley: 384 pp., ISBN-13: 978-0470430903.
- G. Strang (2009). *Introduction to Linear Algebra*, 4th edition. SIAM: x+574 pp., ISBN-13: 978-0980232714 . [3rd edition reviewed in Image 32 by P. Tupper]
- G. Strang (2006). *Linear Algebra and its Applications*, 4th edition. Thomson Brooks/Cole: 544 pp., ISBN-10: 0030105676; ISBN-13: 978-0030105678.
- C. Suhuan (2007). *Matrix Perturbation Theory in Structural Dynamic Design*. Science Press: 248 pp., ISBN-13: 978-7030186980.
- F. Szidarovszky & S. Molnár (2002). *Introduction to Matrix Theory With Applications to Business and Economics*. World Scientific: x+501 pp., ISBN-10: 9810245130; ISBN-13: 978-9810245139. [MR2004790]
- K. Tapp (2005). *Matrix Groups for Undergraduates*. AMS: v+166 pp., ISBN-10: 0821837850; ISBN-13: 978-0821837856.
- L.N. Trefethen & M. Embree (2005). *Spectra and Pseudospectra: The Behavior of Nonnormal Matrices and Operators*. Princeton University Press: xviii+606 pp., ISBN-10: 0691119465; ISBN-13: 978-0691119465. [MR2155029 (2006d:15001, D.S. Watkins)]
- C. Tretter (2007). *Spectral Theory of Block Operator Matrices and Applications*. Imperial College Press: 200 pp., ISBN-10: 1860947689; ISBN-13: 978-1860947681.
- A.M. Tulino & S. Verdú (2004). *Random Matrix Theory and Wireless Communications*. Now Publishers: 192 pp., ISBN-10: 193301900X; ISBN-13: 978-1933019000.
- C. Udriște & V. Balan (2005). *Linear Algebra and Analysis*. Geometry Balkan Press: 161 pp. Electronic edition available at <http://vectron.mathem.pub.ro/apps/mono/appsmono.htm>. [MR2157673]

- F. Uhlig (2002). *Transform Linear Algebra*. Prentice Hall: xx+503 pp., ISBN-10: 0130415359; ISBN-13: 978-0130415356. [MR2128177]
- R. Vandebril, M. Van Barel & N. Mastronardi (2008). *Matrix Computations and Semiseparable Matrices. Vol. I: Linear Systems*. Johns Hopkins University Press: 584 pp., ISBN-13: 978-0801887147.
- R. Vandebril, M. Van Barel & N. Mastronardi (2008). *Matrix Computations and Semiseparable Matrices. Vol. II: Eigenvalue and Singular Value Methods*. Johns Hopkins University Press: xvi+498 pp., ISBN-10: 0801890527; ISBN-13: 978-0801890529. [MR2460593 (2009j:15001)]
- R.S. Varga (2004). *Geršgorin and his Circles*. Springer: x+226 pp., ISBN-10: 3540211004; ISBN-13: 978-3540211006. [Reviewed in Image 34 by S.M. Fallat] [MR2093409 (2005h:15002, D.S. Watkins)]
- W.B. Vasantha Kandasamy (2003). *Linear Algebra and Smarandache Linear Algebra*. Bookman: 173 pp., ISBN-10: 1932301933. [MR2053393]
- W.B. Vasantha Kandasamy & F. Smarandache (2006). *Fuzzy Interval Matrices, Neutrosophic Interval Matrices and Their Applications*. Hexis: 304 pp., ISBN-10: 1599730030. [MR2257619]
- W.B. Vasantha Kandasamy & F. Smarandache (2008). *Super Linear Algebra*. InfoQuest: 293 pp., ISBN-10: 1599730650; ISBN-13: 978-1599730653. [MR2435869 (2009g:15002)]
- W.B. Vasantha Kandasamy, F. Smarandache & K. Ilanthenral (2005). *Introduction to Bimatrices*. Hexis: 181 pp., ISBN-10: 1931233950. [MR2165361]
- W.B. Vasantha Kandasamy, F. Smarandache & K. Ilanthenral (2005). *Introduction to Linear Bialgebra*. Hexis: 238 pp., ISBN-10: 1931233977; ISBN-13: 978-1931233972. [MR2166354]
- W.B. Vasantha Kandasamy, F. Smarandache & K. Ilanthenral (2008). *Set Linear Algebra and Set Fuzzy Linear Algebra*. InfoLearnQuest: 344 pp., ISBN-10: 1599730294; ISBN-13: 978-1599730295. [MR2433076]
- M. Vujčić (2008). *Linear Algebra Thoroughly Explained*. Springer: xii+288 pp., ISBN-10: 3540746374; ISBN-13: 978-3540746379. [Zbl 1137.15001 (A. Arvanitoyeorgos)]
- G. Wang, Y. Wei & S. Qiao (2004). *Generalized Inverses: Theory and Computations*. Science Press: viii+294 pp., ISBN-10: 7030124375. [Reviewed in Image 34 by F. Zhang]

- D.S. Watkins (2010). *Fundamentals of Matrix Computations*, 3rd edition. Wiley: 644 pp., ISBN-13: 978-0470528334.
- D.S. Watkins (2007). *The Matrix Eigenvalue Problem: GR and Krylov Subspace Methods*. SIAM: 452 pp., ISBN-10: 0898716411; ISBN-13: 978-0898716412.
- R.E. White (2006). *Elements of Matrix Modeling and Computing with MATLAB*. Chapman & Hall/CRC: 402 pp., ISBN-10: 1584886277; ISBN-13: 978-1584886273.
- J. Xiaoqing (2004). *Numerical Linear Algebra and its Applications*. Science Press: 174 pp., ISBN-10: 7030139542.
- Y. Yaxiang (2004). *Numerical Linear Algebra and Optimization*. Science Press: 296 pp., ISBN-10: 7030142160.
- F. Zhang (2009). *Linear algebra: Challenging Problems for Students*, 2nd edition. Johns Hopkins University Press: xviii+245 pp., ISBN-10: 0801891264; ISBN-13: 978-0801891267. [1st edition reviewed in Image 20 by W. So] [MR2501859 (2010b:15001)]
- F. Zhang, ed. (2005). *The Schur Complement and its Applications*. Springer: 296 pp., ISBN-10: 0387242716; ISBN-13: 978-0387242712.
- X. Zhang, X. Tang & C. Cao (2007). *Preserver Problems on Spaces of Matrices*. Science Press: iv+409 pp., ISBN-13: 978-7030189318.

Updated on September 27, 2010