
Bibliografie

- [1] O. Agratini, *Aproximare prin operatori liniari*, Presa Universitară Clujeană, Cluj-Napoca, 2000.
- [2] O. Agratini, *Positive Approximation Processes*, Hiperboreea Press, Turda, 2001.
- [3] Octavian Agratini, Ioana Chiorean, Gheorghe Coman, Radu Trîmbițaș, *Analiză numerică și teoria aproximării*, vol. III, Presa Universitară Clujeană, 2002, D. D. Stancu, Gh. Coman, (coord.).
- [4] R. Barrett, M. Berry, T. F. Chan, J. Demmel, J. Donato, J. Dongarra, V. Eijkhout, R. Pozo, C. Romine, H. van der Vorst, *Templates for the Solution of Linear Systems: Building Blocks for Iterative Methods*, 2nd ed., SIAM, Philadelphia, PA, 1994, disponibilă prin [www](http://www.netlib.org/templates), <http://www.netlib.org/templates>.
- [5] Å. Björk, *Numerical Methods for Least Squares Problem*, SIAM, Philadelphia, 1996.
- [6] E. Blum, *Numerical Computing: Theory and Practice*, Addison-Wesley, 1972.
- [7] P. Bogacki, L. F. Shampine, *A 3(2) pair of Runge-Kutta formulas*, Appl. Math. Lett. **2** (1989), no. 4, 321–325.
- [8] C. G. Broyden, *A Class of Methods for Solving Nonlinear Simultaneous Equations*, Math. Comp. **19** (1965), 577–593.
- [9] L. Burden, J. D. Faires, *Numerical Analysis*, PWS Kent, Boston, 1986.
- [10] P. G. Ciarlet, *Introduction à l'analyse numérique matricielle et à l'optimisation*, Masson, Paris, Milan, Barcelone, Mexico, 1990.
- [11] Gheorghe Coman, *Analiză numerică*, Editura Libris, Cluj-Napoca, 1995.
- [12] I. Cuculescu, *Analiză numerică*, Editura Tehnică, București, 1967.

- [13] P. J. Davis, P. Rabinowitz, *Numerical Integration*, Blaisdell, Waltham, Massachusetts, 1967.
- [14] James Demmel, *Applied Numerical Linear Algebra*, SIAM, Philadelphia, 1997.
- [15] J. E. Dennis, J. J. Moré, *Quasi-Newton Methods, Motivation and Theory*, SIAM Review **19** (1977), 46–89.
- [16] J. Dormand, *Numerical Methods for Differential Equations. A Computational Approach*, CRC Press, Boca Raton New York, 1996.
- [17] Gerald Farin, *Curves and Surfaces for Computer-Aided Geometric Design: a Practical Guide*, fourth ed., Academic Press, 1996.
- [18] E. Fehlberg, *Klassische Runge-Kutta-Formeln fünfter und siebenter Ordnung mit Schrittweiten-Kontrolle*, Computing **4** (1969), 93–106, Corrigendum: *ibid.* 5, 184.
- [19] E. Fehlberg, *Klassische Runge-Kutta-Formeln vierter und niedriger Ordnung mit Schrittweiten-Kontrolle und ihre Anwendung auf Wärmeleitungsprobleme*, Computing **6** (1970), 61–71, Corrigendum: *ibid.* 5, 184.
- [20] J. G. F. Francis, *The QR transformation: A unitary analogue to the LR transformation*, Computer J. **4** (1961), 256–272, 332–345, parts I and II.
- [21] W. Gander, W. Gautschi, *Adaptive quadrature - revisited*, BIT **40** (2000), 84–101.
- [22] W. Gautschi, *Numerical Analysis, An Introduction*, Birkhäuser, Basel, 1997.
- [23] Walther Gautschi, *Orthogonal polynomials: applications and computation*, Acta Numerica **5** (1996), 45–119.
- [24] J. Gilbert, C. Moler, R. Schreiber, *Sparse matrices in MATLAB: Design and implementation.*, SIAM J. Matrix Anal. Appl. **13** (1992), no. 1, 333–356, disponibil în kit-ul MATLAB.
- [25] D. Goldberg, *What every computer scientist should know about floating-point arithmetic*, Computing Surveys **23** (1991), no. 1, 5–48.
- [26] H. H. Goldstine, J. von Neumann, *Numerical inverting of matrices of high order*, Amer. Math. Soc. Bull. **53** (1947), 1021–1099.
- [27] Gene H. Golub, Charles van Loan, *Matrix Computations*, 3rd ed., John Hopkins University Press, Baltimore and London, 1996.
- [28] Jens Gravesen, *Differential Geometry and Design of Shape and Motion*, Technical University of Denmark, Lyngby, Denmark, 2002.
- [29] P. R. Halmos, *Finite-Dimensional Vector Spaces*, Springer Verlag, New York, 1958.
- [30] D. J. Higham, N. J. Higham, *MATLAB Guide*, SIAM, Philadelphia, 2000.

- [31] N. J. Higham, F. Tisseur, *A Block Algorithm for Matrix 1-Norm Estimation, with an Application to 1-Norm Pseudospectra*, SIAM Journal Matrix Anal. Appl. **21** (2000), no. 4, 1185–1201.
- [32] Nicholas J. Higham, *The Test Matrix Toolbox for MATLAB*, Tech. report, Manchester Centre for Computational Mathematics, 1995, disponibil via WWW la adresa <http://www.ma.man.ac.uk/MCCM/MCCM.html>.
- [33] Nicholas J. Higham, *Accuracy and Stability of Numerical Algorithms*, SIAM, Philadelphia, 1996.
- [34] E. Isaacson, H. B. Keller, *Analysis of Numerical Methods*, John Wiley, New York, 1966.
- [35] D. Kincaid, W. Cheney, *Numerical Analysis: Mathematics of Scientific Computing*, Brooks/Cole Publishing Company, Belmont, CA, 1991.
- [36] Mirela Kohr, *Capitole speciale de mecanică*, Presa Univ. Clujeană, 2005.
- [37] V. N. Kublanovskaya, *On some algorithms for the solution of the complete eigenvalue problem*, USSR Comp. Math. Phys. **3** (1961), 637–657.
- [38] The Mathworks Inc., Natick, Ma, *Using MATLAB*, 2002.
- [39] The Mathworks Inc., Natick, Ma, *MATLAB. Getting Started*, 2004, Version 7.
- [40] The Mathworks Inc., Natick, Ma, *MATLAB. Symbolic Math Toolbox*, 2004, Version 7.
- [41] The Mathworks Inc., Natick, Ma, *MATLAB. The Language of Technical Computing. Mathematics*, 2004, Version 7.
- [42] The Mathworks Inc., Natick, Ma, *MATLAB. The Language of Technical Computing. Programming*, 2004, Version 7.
- [43] The Mathworks Inc., Natick, Ma, *Using MATLAB Graphics*, 2004, Version 7.
- [44] Cleve Moler, *Numerical Computing in MATLAB*, SIAM, 2004, disponibil via www la adresa <http://www.mathworks.com/moler>.
- [45] J. J. Moré, M. Y. Cosnard, *Numerical Solutions of Nonlinear Equations*, ACM Trans. Math. Softw. **5** (1979), 64–85.
- [46] Shoichiro Nakamura, *Numerical Computing and Graphic Vizualization in MATLAB*, Prentice Hall, Englewood Cliffs, NJ, 1996.
- [47] Dana Petcu, *Matematică asistată de calculator*, Eubeea, Timișoara, 2000.
- [48] W. H. Press, S. A. Teukolsky, W. T. Vetterling, B. P. Flannery, *Numerical Recipes in C*, Cambridge University Press, Cambridge, New York, Port Chester, Melbourne, Sidney, 1996, disponibili prin www, <http://www.nr.com/>.
- [49] J. J. Rissler, *Méthodes mathématiques pour la CAO*, Masson, Paris, Milan, Barcelone, Bonn, 1991.

- [50] I. A. Rus, *Ecuatii diferențiale, ecuații integrale și sisteme dinamice*, Transilvania Press, Cluj-Napoca, 1996.
- [51] I. A. Rus, P. Pavel, *Ecuatii diferențiale*, Editura Didactică și Pedagogică, București, 1982, ediția a doua.
- [52] H. Rutishauser, *Solution of the eigenvalue problems with the LR transformation*, Nat. Bur. Stand. App. Math. Ser. **49** (1958), 47–81.
- [53] Y. Saad, *Iterative Methods for Sparse Linear Systems*, PWS Publishing, Boston, 1996, disponibilă via [www](http://www-users.cs.umn.edu/~saad/books.html) la adresa <http://www-users.cs.umn.edu/~saad/books.html>.
- [54] A. Sard, *Linear Approximation*, American Mathematical Society, Providence, RI, 1963.
- [55] Thomas Sauer, *Numerische Mathematik I*, Universität Erlangen-Nurnberg, Erlangen, 2000, Vorlesungskript.
- [56] Thomas Sauer, *Numerische Mathematik II*, Universität Erlangen-Nurnberg, Erlangen, 2000, Vorlesungskript.
- [57] R. Schwarz, H., *Numerische Mathematik*, B. G. Teubner, Stuttgart, 1988.
- [58] L. F. Shampine, R. C. Allen, S. Pruess, *Fundamentals of Numerical Computing*, John Wiley & Sons, Inc, 1997.
- [59] L. F. Shampine, I. Gladwell, S. Thompson, *Solving ODEs with matlab*, Cambridge University Press, Cambridge, New York, Melbourne, Madrid, Cape Town, Singapore, São Paulo, 2003.
- [60] L. F. Shampine, Reichelt R. W., *The MATLAB ODE suite*, SIAM J. Sci. Comput. **18** (1997), no. 1, 1–22.
- [61] D. D. Stancu, *Asupra formulei de interpolare a lui Hermite și a unor aplicații ale acesteia*, Acad. R. P. Rom. Studii și Cercetări Matematice **8** (1957), 339–355, Filiala Cluj a Academiei.
- [62] D. D. Stancu, *Analiză numerică – Curs și culegere de probleme*, Lito UBB, Cluj-Napoca, 1977.
- [63] D. D. Stancu, G. Coman, P. Blaga, *Analiză numerică și teoria aproximării*, vol. II, Presa Universitară Clujeană, Cluj-Napoca, 2002, D. D. Stancu, Gh. Coman, (coord.).
- [64] D. D. Stancu, Gh. Coman, O. Agratini, R. Trîmbițaș, *Analiză numerică și Teoria aproximării*, vol. I, Presa Universitară Clujeană, Cluj-Napoca, 2001, D. D. Stancu, Gh. Coman, (coord.).
- [65] J. Stoer, R. Burlisch, *Einführung in die Numerische Mathematik*, vol. II, Springer Verlag, Berlin, Heidelberg, 1978.

-
- [66] J. Stoer, R. Burlisch, *Introduction to Numerical Analysis*, 2nd ed., Springer Verlag, 1992.
 - [67] A. H. Stroud, *Approximate Calculation of Multiple Integrals*, Prentice Hall Inc., Englewood Cliffs, NJ, 1971.
 - [68] Lloyd N. Trefethen, David Bau III, *Numerical Linear Algebra*, SIAM, Philadelphia, 1996.
 - [69] E. E. Tyrtyshnikov, *A Brief Introduction to Numerical Analysis*, Birkhäuser, Boston, Basel, Berlin, 1997.
 - [70] C. Überhuber, *Computer-Numerik*, vol. 1, 2, Springer Verlag, Berlin, Heidelberg, New-York, 1995.
 - [71] C. Ueberhuber, *Numerical Computation. Methods, Software and Analysis*, vol. I, II, Springer Verlag, Berlin, Heidelberg, New York, 1997.
 - [72] J. H. Wilkinson, *The Algebraic Eigenvalue Problem*, Clarendon Press, Oxford, 1965.