

Bibliography for the Course

References

- [1] M. Arioli, I. S. Duff, and P. P. M. de Rijk. On the augmented system approach to sparse least-squares problems. *Numer. Math.*, 55:667–684, October 1989.
- [2] W. S. Brainerd, C. H. Goldberg, and J. C. Adams. *Programmer's Guide to Fortran 90, third edition*. Springer-Verlag, New York, 1995.
- [3] J. Dian. *Existence Verification of Higher Degree Singular Zeros of Nonlinear Systems*. PhD thesis, University of Louisiana at Lafayette, 2000.
- [4] P. E. Gill, W. Murray, and M. Wright. *Practical Optimization*. Academic Press, New York, 1981.
- [5] W. Govaerts. Computation of singularities in large nonlinear systems. *SIAM J. Numer. Anal.*, 34(3):867–880, June 1997.
- [6] E. R. Hansen and G. W. Walster. Bounds for Lagrange multipliers and optimal points. *Comput. Math. Appl.*, 25(10):59, 1993.
- [7] R. B. Kearfott. Interval computations – introduction, uses, and resources. *Euromath Bulletin*, 2(1):95–112, 1996.
- [8] R. B. Kearfott and J. Dian. Existence verification for higher-degree singular zeros of complex nonlinear systems, 2000. preprint, http://interval.louisiana.edu/preprints/degree_cplx.0302.pdf.
- [9] R. B. Kearfott and J. Dian. Verifying topological indices for higher-order rank deficiencies, 2000. preprint,.
- [10] R. B. Kearfott, J. Dian, and A. Neumaier. Existence verification for singular zeros of complex nonlinear systems, 1999. preprint,.
- [11] V. Kreinovich. Interval computations web page, 2001. <http://www.cs.utep.edu/interval-comp/main.html>.
- [12] J. Mawhin. Review of: Generalized topological degree and semilinear equations, by w. v. petryshyn, cambridge tracts in mathematics, vol. 117, cambridge university press, cambridge, 1995, April 1997.
- [13] A. Neumaier. Solving linear least squares problems by interval arithmetic, 1987. preprint,.

- [14] Andrew P. Smith. *Computing Topological Degree and Equation Solving*. PhD thesis, 2001. <http://www.durenmar.de/azazael/phd.html>.
- [15] G. W. Walster, J. D. Pryce, and E. R. Hansen. Exception-free arithmetic on the extended reals, 2001.
- [16] G. W. et al Walster. Interval arithmetic programming reference, 2000.
/opt/SUNWepro/WS6U1/lib/locale/C/html/manuals/fortran/intervals_prog_ref/iapg_bookTDC.html.
- [17] G. W. Walster et al. Forte Fortran / HPC: interval arithmetic, 2000.
<http://www.sun.com/forte/fortran/interval/>.