

References

- ADAMS, R. A. (1975) *Sobolev spaces*. Academic Press [A subsidiary of Harcourt Brace Jovanovich, Publishers], New York-London, pp. xviii+268. Pure and Applied Mathematics, Vol. 65.
- ALLEN, D. & SOUTHWELL, R. (1955) Relaxation methods applied to determine the motion, in two dimensions, of a viscous fluid past a fixed cylinder. *Quart. J. Mech. and Appl. Math.*, **8**, 129–145.
- BARRENECHEA, G. R., JOHN, V., KNOBLOCH, P. & RANKIN, R. (2018) A unified analysis of algebraic flux correction schemes for convection-diffusion equations. *SeMA J.*, **75**, 655–685.
- BRAMBLE, J. H. & HUBBARD, B. E. (1964) On a finite difference analogue of an elliptic boundary problem which is neither diagonally dominant nor of non-negative type. *J. Math. and Phys.*, **43**, 117–132.
- BRANDTS, J., KOROTOV, S., KRÍŽEK, M. & ŠOLC, J. (2009) On nonobtuse simplicial partitions. *SIAM Rev.*, **51**, 317–335.
- BROOKS, A. & HUGHES, T. (1982) Streamline upwind/Petrov-Galerkin formulations for convection dominated flows with particular emphasis on the incompressible Navier–Stokes equations. *Comput. Methods Appl. Mech. Engrg.*, **32**, 199 – 259.
- CHENG, S.-W., DEY, T. K. & SHEWCHUK, J. R. (2013) *Delaunay mesh generation*. Chapman & Hall/CRC Computer and Information Science Series. Chapman & Hall/CRC, Boca Raton, FL, pp. xvi+394.
- CIARLET, P. G. (1970) Discrete maximum principle for finite-difference operators. *Aequationes Math.*, **4**, 338–352.
- CIARLET, P. G. & RAVIART, P.-A. (1973) Maximum principle and uniform convergence for the finite element method. *Comput. Methods Appl. Mech. Engrg.*, **2**, 17–31.
- DEMENGEL, F. & DEMENGEL, G. (2012) *Functional spaces for the theory of elliptic partial differential equations*. Universitext. Springer, London; EDP Sciences, Les Ulis, pp. xviii+465. Translated from the 2007 French original by Reinie Ern e.

- DRĂGĂNESCU, A., DUPONT, T. F. & SCOTT, L. R. (2005) Failure of the discrete maximum principle for an elliptic finite element problem. *Math. Comp.*, **74**, 1–23 (electronic).
- EDELSBRUNNER, H. (2001) *Geometry and topology for mesh generation*. Cambridge Monographs on Applied and Computational Mathematics, vol. 7. Cambridge University Press, Cambridge, pp. xii+177.
- GILBARG, D. & TRUDINGER, N. S. (2001) *Elliptic partial differential equations of second order*. Classics in Mathematics. Springer-Verlag, Berlin, pp. xiv+517. Reprint of the 1998 edition.
- HUGHES, T. & BROOKS, A. (1979) A multidimensional upwind scheme with no crosswind diffusion. *Finite Element Methods for Convection Dominated Flows, AMD vol.34* (T. Hughes ed.). ASME, New York, pp. 19 – 35.
- IL'IN, A. (1969) A difference scheme for a differential equation with a small parameter multiplying the second derivative. *Mat. zametki*, **6**, 237–248.
- JOHN, V., MITKOVA, T., ROLAND, M., SUNDMACHER, K., TOBISKA, L. & VOIGT, A. (2009) Simulations of population balance systems with one internal coordinate using finite element methods. *Chemical Engineering Science*, **64**, 733 – 741. `je:title;3rd International Conference on Population Balance Modelling;ce:title;.`
- JOHN, V. & KNOBLOCH, P. (2007) On spurious oscillations at layers diminishing (SOLD) methods for convection-diffusion equations. I. A review. *Comput. Methods Appl. Mech. Engrg.*, **196**, 2197–2215.
- NEČAS, J. (2012) *Direct methods in the theory of elliptic equations*. Springer Monographs in Mathematics. Springer, Heidelberg, pp. xvi+372. Translated from the 1967 French original by Gerard Tronel and Alois Kufner, Editorial coordination and preface by Šárka Nečasová and a contribution by Christian G. Simader.
- OSTROWSKI, A. (1937) Über die Determinanten mit überwiegender Hauptdiagonale. *Comment. Math. Helv.*, **10**, 69–96.
- PLEMMONS, R. J. (1977) M -matrix characterizations. I. Nonsingular M -matrices. *Linear Algebra and Appl.*, **18**, 175–188.
- RENARDY, M. & ROGERS, R. C. (2004) *An introduction to partial differential equations*. Texts in Applied Mathematics, vol. 13, second edn. Springer-Verlag, New York, pp. xiv+434.
- SCHARFETTER, D. & GUMMEL, H. (1969) Large signal analysis of a silicon Read diode. *IEEE Trans. Elec. Dev.*, **16**, 64–77.
- SIBSON, R. (1978) Locally equiangular triangulations. *Comput. J.*, **21**, 243–245.
- VARGA, R. S. (2000) *Matrix iterative analysis*. Springer Series in Computational Mathematics, vol. 27, expanded edn. Springer-Verlag, Berlin, pp. x+358.
- WILBRANDT, U. (2019) *Stokes-Darcy equations*. Lecture Notes in Mathematical Fluid Mechanics. Birkhäuser/Springer, Cham, pp. viii+212. Analytic and numerical analysis.

- XU, J. & ZIKATANOV, L. (1999) A monotone finite element scheme for convection-diffusion equations. *Math. Comp.*, **68**, 1429–1446.
- ZHOU, G. (1997) How accurate is the streamline diffusion finite element method? *Math. Comp.*, **66**, 31 – 44.