A Bibliography of Publications of Jie Shen

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Abstract

This bibliography records publications of Jie Shen.

Title word cross-reference

1988 [DHV89]. **1989** [CQ90].
1992 [VKR92].

26-29 [CQ90]. **27-July** [DHV89].

Advances [VKR92].
approximate [She89a].
approximation [She88b].
attractors [She89a].

bifurcation [She91]. **Brunswick** [VKR92].

case [ST95]. **cavity** [She89b].
Chebyshev [She95a]. **Como** [CQ90].
Computer [VKR92]. **Conference** [DHV89].
constant [She95c]. **Convergence** [She89a].

Differential [She90d]. **diffusion** [She89a].
dimensional [ST95].
Direct [She95a, She94a]. **discrete** [She89a].
discretization [She88a]. **driven** [She90b].
Dynamics [She89b].

Efficient [She94a]. **Eleventh** [DHV89].
equation [MRS89a]. **equations** [She88b].
Error [She92a]. **Estimates** [She92a].
existence [MRS89b].

fast [She95c]. **First** [She92a].
First-Order [She92a]. **flow** [She88a].
flows [ST89]. **Fluid** [DHV89].
fourth [She94a]. **fourth-order** [She94a].
fractional [ST89]. **fully** [She89a].

Galerkin [She90a].

References

Canuto:1990:SHO

[CQ90] Claudio Canuto and Alfio Quarteroni, editors. *Spectral and high order methods for partial differential equations: proceedings of the ICOSAHOM'89 Conference, Villa Olmo, Como, Italy, 26-29 June 1989*. North-Holland, Amsterdam, The Netherlands, 1990. ISBN 0-444-88475-0. LCCN QA377 .I39 1989.

Dwoyer:1989:PEI

[DHV89] D. L. Dwoyer, M. Y. Hussaini, and R. G. Voigt, editors. *Proceedings of the Eleventh International Conference on Numerical Methods in Fluid Dynamics, held in Williamsburg, Virginia, June 27-July 1, 1988*, number 323 in Lecture Notes in Physics. Springer-Verlag, Berlin, Germany / Heidelberg, Germany /

London, UK / etc., 1989. ISBN 0-387-51048-6 (New York), 3-540-51048-6 (Berlin). LCCN QA911 .I541 1988.

Michaux:1989:AQE

[MRS89a] B. Michaux, J. M. Rakotoson, and Jie Shen. On the approximation of a quasilinear equation. *Math. Model. Num. Anal.*, 24(2):211–234, 1989.

Michaux:1989:ERS

[MRS89b] B. Michaux, J. M. Rakotoson, and Jie Shen. On the existence and regularity of solutions of a quasilinear mixed equation of leray-lions type. *Acta Appl. Math.*, 12:287–316, 1989.

Shen:1988:TDI

[She88a] Jie Shen. On time discretization of the incompressible flow. In Dwoyer et al. [DHV89], pages 538–542. ISBN 0-387-51048-6 (New York), 3-540-51048-6 (Berlin). LCCN QA911 .I541 1988.

Shen:1988:STA

[She88b] Jie Shen. A spectral-tau approximation for the Stokes and Navier–Stokes equations. *Math. Model. Num. Anal.*, 22(4):677–693, 1988.

Shen:1989:CAA

[She89a] Jie Shen. Convergence of the approximate attractors for a fully discrete scheme for the reaction-diffusion equations. *Numer. Func. Anal. Opt.*, 10(11-12):1213–1234, 1989.

Shen:1989:DRC

[She89b] Jie Shen. Dynamics of regularized cavity flow at high Reynolds numbers. *Appl. Math. Let.*, 2(4):381–384, 1989.

Shen:1990:LTS

[She90a] Jie Shen. Long time stability and convergence for fully discrete nonlinear Galerkin methods. *Appl. Anal.*, 38:201–229, 1990.

Shen:1990:NSR

[She90b] Jie Shen. Numerical simulation of the regularized driven cavity flows at high Reynolds numbers. *Comput. Meth. Appl. Mech. Engin.*, 80: 273–280, 1990.

Shen:1990:USS

[She90c] Jie Shen. On an unconditionally stable scheme for the unsteady Navier–Stokes equations. *J. Comput. Math.*, 8(3):276–288, 1990.

Shen:1990:SHO

[She90d] Jie Shen. Spectral and high order methods for partial differential equations. In Canuto and Quarteroni [CQ90], page ?? ISBN 0-444-88475-0. LCCN QA377 .I39 1989.

Shen:1991:HBU

[She91] Jie Shen. Hopf bifurcation of the unsteady regularized driven cavity flows. *J. Computational Physics*, 95:228–245, 1991.

Shen:1992:EEP

[She92a] Jie Shen. On error estimates of projection methods for Navier–Stokes

equations: First-order schemes. *SIAM Journal on Numerical Analysis*, 29(1):57–77, February 1992. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Shen:1992:EES

[She92b] Jie Shen. On error estimates of some higher order projection and penalty-projection schemes for the Navier–Stokes equations. *Num. Math*, 62:49–73, 1992.

Shen:1992:PSM

[She92c] Jie Shen. On pressure stabilization method and projection method for unsteady Navier–Stokes equations. In Vichnevetsky et al. [VKR92], pages 658–662.

Shen:1992:PSN

[She92d] Jie Shen. Projection schemes for the Navier–Stokes equations. *Appl. Math. Let.*, 1992.

Shen:1993:RPM

[She93] Jie Shen. A remark on the projection-3 method. *Int. J. Num. Meth. Fluids*, 16:249–253, 1993.

Shen:1994:ESG

[She94a] Jie Shen. Efficient spectral-Galerkin method I. Direct solvers for second- and fourth-order equations by using Legendre polynomials. *SIAM J. Scient. Stat. Comput.*, 15:1489–1505, 1994.

Shen:1994:RPE

[She94b] Jie Shen. Remarks on the pressure error estimates for the projection methods, 1994.

Shen:1995:ESG

[She95a] Jie Shen. Efficient spectral-Galerkin method II. direct solvers for second- and fourth-order equations by using Chebyshev polynomials. *SIAM J. Scient. Stat. Comput.*, 16:74–87, 1995.

Shen:1995:EEP

[She95b] Jie Shen. On error estimates of the penalty method for unsteady Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 32 (2):386–403, April 1995. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Shen:1995:FPS

[She95c] Jie Shen. On fast Poisson solver, inf-sup constant and iterative Stokes solver by Legendre Galerkin method. *J. Computational Physics*, 116:184–188, 1995.

Shen:1989:NFS

[ST89] Jie Shen and R. Temam. A new fractional scheme for the approximation of incompressible flows. *Mat. Aplic. Comput.*, 8(1):3–22, 1989.

Shen:1995:NGM

[ST95] Jie Shen and Roger Temam. Nonlinear Galerkin method using Chebyshev and Legendre polynomials. I. the one-dimensional case. *SIAM Journal on Numerical Analysis*, 32(1):215–234, February 1995. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Vichnevetsky:1992:ACM

[VKR92] R. Vichnevetsky, D. Knight, and G. Richter, editors. *Advances in Computer Methods for Partial Differential Equations VII: Proceedings of the seventh IMACS International Symposium on Computer Methods for Partial Differential Equations, New Brunswick, New Jersey, USA, June 22–24, 1992.* IMACS, Department of Computer Science, Rutgers University, New Brunswick, NJ, 1992. x + 860 pp.