

References

- [1] Abbasbandy, S., Magyari, E., Shivanian, E.: The homotopy analysis method for multiple solutions of nonlinear boundary value problems. *Commun. Nonlinear Sci. Numer. Simulat.* **14**, 3530 – 3536 (2009).
- [2] Abbasbandy, S., Shivanian, E.: Prediction of multiplicity of solutions of nonlinear boundary value problems – Novel application of homotopy analysis method. *Commun. Nonlinear Sci. Numer. Simulat.* **15**, 3830 – 3846 (2010).
- [3] Abbasbandy, S., Shivanian, E.: Predictor homotopy analysis method and its application to some nonlinear problems. *Commun Nonlinear Sci Numer Simulat.* **16**, 2456 – 2468 (2011).
- [4] Adomian, G.: Nonlinear stochastic differential equations. *J. Math. Anal. Applic.* **55**, 441 – 452 (1976)
- [5] Adomian, G.: A review of the decomposition method and some recent results for nonlinear equations. *Comput. Math. Appl.* **21**, 101 – 127 (1991)
- [6] Adomian, G.: *Solving Frontier Problems of Physics: The Decomposition Method.* Kluwer Academic Publishers, Boston (1994)
- [7] Adomian, G., Adomian, G.E.: A global method for solution of complex systems. *Math. Model.* **5**, 521 – 568 (1984)
- [8] Akyildiz, F.T., Vajravelu, K. Magnetohydrodynamic flow of a viscoelastic fluid. *Phys. Lett. A.* **372**, 3380 – 3384 (2008)
- [9] Awrejcewicz, J., Andrianov, I.V., Manevitch, L.I.: *Asymptotic Approaches in Nonlinear Dynamics.* Springer-Verlag, Berlin (1998)
- [10] Cherruault, Y.: Convergence of Adomian’s method. *Kybernetika.* **8**, 31 – 38 (1988)
- [11] Cole, J.D.: *Perturbation Methods in Applied Mathematics.* Blaisdell Publishing Company, Waltham (1992)
- [12] He, J.H.: Homotopy perturbation technique. *Comput. Method. Appl. M.* **178**, 257 – 262 (1999)
- [13] Hilton, P.J.: *An Introduction to Homotopy Theory.* Cambridge University Press, Cambridge (1953)
- [14] Karmishin, A.V., Zhukov, A.T., Kolosov, V.G. *Methods of Dynamics Calculation and Testing for Thin-walled Structures (in Russian).* Mashinostroyenie, Moscow (1990)
- [15] Kevorkian, J., Cole, J.D.: *Multiple Scales and Singular Perturbation Methods.* Springer-Verlag, New York (1995)

- [16] Liang, S.X., Jeffrey, D.J.: Comparison of homotopy analysis method and homotopy perturbation method through an evaluation equation. *Commun. Nonlinear Sci. Numer. Simulat.* **14**, 4057 – 4064 (2009)
- [17] Liao, S.J.: The proposed Homotopy Analysis Technique for the Solution of Non-linear Problems. PhD dissertation, Shanghai Jiao Tong University (1992)
- [18] Liao, S.J.: A kind of approximate solution technique which does not depend upon small parameters (II) – an application in fluid mechanics. *Int. J. Nonlin. Mech.* **32**, 815 – 822 (1997)
- [19] Liao, S.J.: An explicit, totally analytic approximation of Blasius viscous flow problems. *Int. J. Nonlin. Mech.* **34**, 759 – 778 (1999)
- [20] Liao, S.J.: *Beyond Perturbation – Introduction to the Homotopy Analysis Method*. Chapman & Hall/ CRC Press, Boca Raton (2003)
- [21] Liao, S.J.: On the homotopy analysis method for nonlinear problems. *Appl. Math. Comput.* **147**, 499 – 513 (2004)
- [22] Liao, S.J.: Series solutions of unsteady boundary-layer flows over a stretching flat plate. *Stud. Appl. Math.* **117**, 2529 – 2539 (2006)
- [23] Liao, S.J., Tan, Y.: A general approach to obtain series solutions of nonlinear differential equations. *Stud. Appl. Math.* **119**, 297 – 355 (2007)
- [24] Liao, S.J.: Notes on the homotopy analysis method – some definitions and theorems. *Commun. Nonlinear Sci. Numer. Simulat.* **14**, 983 – 997 (2009)
- [25] Liao, S.J.: A general approach to get series solution of non-similarity boundary layer flows. *Commun. Nonlinear Sci. Numer. Simulat.* **14**, 2144 – 2159 (2009)
- [26] Liao, S.J.: Series solution of deformation of a beam with arbitrary cross section under an axial load. *ANZIAM J.* **51**, 10–33 (2009)
- [27] Liao, S.J.: On the relationship between the homotopy analysis method and Euler transform. *Commun. Nonlinear Sci. Numer. Simulat.* **15**, 1421 – 1431 (2010).
- [28] Liao, S.J.: An optimal homotopy-analysis approach for strongly nonlinear differential equations. *Commun. Nonlinear Sci. Numer. Simulat.* **15**, 2003 – 2016 (2010).
- [29] Liao, S.J.: *The Homotopy Analysis Method in Nonlinear Differential Equations*. Higher Education Press & Springer, Beijing and Heidelberg (2012)
- [30] Lindstedt, A.: Under die integration einer für die störungstheorie wichtigen differentialgleichung. *Astron. Nach.* **103**, 211 – 222 (1882)
- [31] Lyapunov, A.M.: *General Problem on Stability of Motion* (English translation). Taylor & Francis, London (1992)

- [32] Marinca, V., Herişanu, N.: Application of optimal homotopy asymptotic method for solving nonlinear equations arising in heat transfer. *Int. Commun. Heat Mass.* **35**, 710 – 715 (2008)
- [33] Marinca, V., Herişanu, N.: An optimal homotopy asymptotic method applied to the steady flow of a fourth-grade fluid past a porous plat. *Appl. Math. Lett.* **22**, 245 – 251 (2009)
- [34] Marinca, V., Herişanu, N.: Comments on “A one-step optimal homotopy analysis method for nonlinear differential equations”. *Commun. Nonlinear Sci. Numer. Simulat.* **15**, 3735 – 3739 (2010).
- [35] Motsa, S.S., Sibanda, P., Shateyi, S.: A new spectral homotopy analysis method for solving a nonlinear second order BVP. *Commun. Nonlinear Sci. Numer. Simulat.* **15**, 2293-2302, 20010.
- [36] Motsa, S.S., Sibanda, P., Auad, F.G., Shateyi, S.: A new spectral homotopy analysis method for the MHD Jeffery-Hamel problem. *Computer & Fluids.* **39**, 1219 – 1225 (2010)
- [37] Murdock, J.A.: *Perturbations – Theory and Methods.* John Wiley & Sons, New York (1991)
- [38] Nayfeh, A.H.: *Perturbation Methods.* John Wiley & Sons, New York (2000)
- [39] Niu, Z., Wang, C.: A one-step optimal homotopy analysis method for nonlinear differential equations. *Commun. Nonlinear Sci. Numer. Simulat.* **15**, 2026 – 2036 (2010).
- [40] Niu, Z., Wang, C.: Reply to “Comments on ‘A one-step optimal homotopy analysis method for nonlinear differential equations’ ”. *Commun. Nonlinear Sci. Numer. Simulat.* **15**, 3740 – 3743 (2010).
- [41] Rach, R.: A new definition of Adomian polynomial. *Kybernetes.* **37**, 910 – 955 (2008)
- [42] Sen, S.: *Topology and Geometry for Physicists.* Academic Press, Florida (1983)
- [43] Von Dyke, M.: *Perturbation Methods in Fluid Mechanics.* The Parabolic Press, Stanford (1975)
- [44] Yabushita, K., Yamashita, M., Tsuboi, K.: An analytic solution of projectile motion with the quadratic resistance law using the homotopy analysis method. *J. Phys. A – Math. Theor.* **40**, 8403 – 8416 (2007)
- [45] Yang, C., Liao, S.J.: On the explicit, purely analytic solution of Von Kármán swirling viscous flow. *Commun. Nonlinear Sci. Numer. Simulat.* **11**, 83 – 39 (2006)