

Bibliography

- [1] Abbasbandy, S. (2006). The application of homotopy analysis method to nonlinear equation arising in heat transfer. *Phys. Lett. A.*, 360:109-113.
- [2] Abd-Elhameed, W. M., Youssri, Y.H. and Doha, E.H. (2015). A novel operational matrix method based on shifted Legendre polynomials for solving second-order boundary value problems involving singular, singularly perturbed and Bratu-type equations. *Math. Sci.*, 9:93–102.
- [3] Ahmed, S. G. (2006). A new algorithm for moving boundary problem subject to periodic boundary conditions. *Int. J. Num. Methods Heat Fluid Flow*, 16:18-27.
- [4] Animasaun, I. L. (2015). Effects of thermophoresis, variable viscosity and thermal conductivity on free convective heat and mass transfer of non-darcian MHD dissipative Casson fluid flow with suction and nth order of chemical reaction. *J. Nigerian Math. Soc.*, 34:11–31.
- [5] Animasaun, I. L. (2017). Melting heat and mass transfer in stagnation point micropolar fluid flow of temperature dependent fluid viscosity and thermal conductivity at constant vortex viscosity. *J. Egyptian Math. Soc.*, 25 (1):79–85.
- [6] Annamalai, K., Lau, S. C. and Kondepudi, S. N. (1986). A non-integral technique for the approximate solution of transport problems. *Int. Commu. Heat Mass Transf.*, 13:523-534.
- [7] Asaithambi, N. S. (1997). A variable time step Galerkin method for one dimensional Stefan problem. *Appl. Math. Comp.*, 81:189-200.
- [8] Atabakzadeh, M. H., Akrami, M. H. and Erjaee, G. H. (2013). Chebyshev operational matrix method for solving multi-order fractional ordinary differential equations. *Appl. Math. Model.*, 37: 8903-8911.
- [9] Biot, M. A. (1957). New methods in heat flow analysis with application to flight structures. *J. Aeronautical Sci.*, 24:857-873.

- [10] Biot, M. A. (1959). Further developments of new methods in heat-flow analysis. *J. Aerospace Sci. Tech.*, 26:367-381.
- [11] Biot, M. A. and Daughaday, H. (1962). Variational analysis of ablation, Reader's Forum. *J. Aerospace Sci. Tech.*, 29:228-229.
- [12] Boley, B. A. (1975). The embedding technique in melting and solidification problem: in moving boundary problem in heat flow and diffusion. *In Ockendon and Hodgkins*, 149-171.
- [13] Boley, B. A. (1968). A general starting solution for melting and solidifying slabs. *Int. J. Eng. Sci.*, 6:89.
- [14] Boley, B. A. (1961). A method of heat conduction analysis of melting and solidification problems. *J. Math. Phys.*, 40:300-313.
- [15] Boley, B. A. and Yagoda H. P. (1971). The three-dimensional starting solution for a melting slab. *Proc. Royal Society London A*, 323:89.
- [16] Boley, B. A. and Estenssoro, L. (1977). Improvements on approximate solutions in heat conduction. *Mech. Res. Commu.*, 4:271-279.
- [17] Bollati, J., Semitiel, J. and Tarzia, D. A. (2018). Heat balance integral methods applied to the one-phase Stefan problem with a convective boundary condition at the fixed face. *Appl. Math. Comp.*, 331:1–19.
- [18] Bollati, J. and Tarzia, D. A. (2018). Exact solution for a two-phase Stefan problem with variable latent heat and a convective boundary condition at the fixed face. *Z. Angew. Math. Phys.*, 69:38.
- [19] Brebbia, C. A., Telles, J. C. F. and Wrobel, L. C. (1984). *Boundary Element Techniques*, Springer-Verlag, Berlin.
- [20] Brillouin, M. (1931). Sur quelques problèmes non résolus de la Physique Mathématique classique, Propagation de la fusion. *Anna. de l'Ins. Henri Poin.*, 1:285-308.
- [21] Briozzo, A. C. and Natale, M. F. (2015). One-phase Stefan problem with temperature-dependent thermal conductivity and a boundary condition of Robin type. *J. Appl. Anal.*, 21(2):89–97.

- [22] Briozzo, A. C. and Natale, M. F. (2016). Nonlinear Stefan problem with convective boundary condition in Storm's materials. *Zeitschrift fur angewandte Mathematik und Physik ZAMP*, 67:19.
- [23] Briozzo, A.C. and Natale, M. F. (2017). A nonlinear supercooled Stefan problem. *Zeitschrift fur angewandte Mathematik und Physik ZAMP*, 68:46.
- [24] Briozzo, A. C., Natale, M. F. and Tarzia, D. A. (2007). Existence of an exact solution for a one-phase Stefan problem with nonlinear thermal coefficients from Tirkii's method. *Nonlinear Analysis*, 67:1989–1998.
- [25] Briozzo, A. C., Natale, M. F. and Tarzia, D. A. (2010). The Stefan problem with temperature-dependent thermal conductivity and a convective term with a convective condition at the fixed face. *Commu. Pure Appl. Analysis*, 9 (5):1209-1220.
- [26] Broadbridge, P. and Pincombe, B. (1996). The Stefan solidification problem with nonmonotonic nonlinear heat diffusivity. *Math. Comp. Model.*, 23:87-98.
- [27] Caldwell, J. and Savovic, S. (2002). Nodal integral and finite difference solution of one-dimensional Stefan problem. *J. Heat Transf.*, 125:523-527.
- [28] Carslaw H. S. and Jaeger J. C. (1987). *Conduction of heat in solids*, Oxford University Press, Oxford, U.K.
- [29] Carslaw, H. S. and Jaeger, J. C. (1959). *Conduction of Heat in Solids*, Oxford University Press, London.
- [30] Ceretani, A. N, Salva, N. N. and Tarzia, D. A. (2018). An exact solution to a Stefan problem with variable thermal conductivity and a Robin boundary condition. *Nonlinear Analysis: Real World Appl.*, 40:243-259.
- [31] Ceretani, A. N. and Tarzia, D. A. (2018). Similarity solution for a two-phase one-dimensional Stefan problem with a convective boundary condition and a mushy zone model. *Comp. Appl. Math.*, 37:2201–2217.
- [32] Chernousko, F. L. (1970). Solution of non-linear heat conduction problems in media with phase changes. *Int. J. Che. Eng.*, 10:42-48.
- [33] Chhetri, P. G. and Vatsola, A. S. (2018). Generalized monotone method for Riemann-Liouville fractional reaction diffusion equation with applications. *Nonlinear Dynamics and Systems Theory*, 18(3):259-272.

- [34] Cho, S. H. and Sunderland, J. E. (1974). Phase-change problems with temperature dependent thermal conductivity. *J. Heat Transf.*, 96 (2):214–217.
- [35] Chuang Y. K. and Szekely J. (1972). The use of Green's functions for solving melting or solidification problems in the cylindrical coordinate system. *Int. J. Heat Mass Transf.*, 15:1171-1174.
- [36] Collatz L. (1978). In Dundee Conference on numerical Analysis (ed. Watson G. A.). *Lecture Notes in Mathematics*, Springer-Verlag, Berlin, 630.
- [37] Crank J. and Crowley A. B. (1978). Isotherm migration along orthogonal flow lines. *Int. J. Heat Mass Transf.*, 21:393-398.
- [38] Crank J. and Phahle R. D. (1973). Melting ice by the isotherm migration method. *Bull. Ins. Math. Appl.*, 9:12-14.
- [39] Crank, J. and Gupta, R. S. (1975). Isotherm Migration Method in Two Dimensions. *Int. J. Heat Mass Transf.*, 18(9):1101-1107.
- [40] Crank, J. (1987). *Free And Moving Boundary Problems*, Oxford Science Publications.
- [41] Crank, J. (1984). *Free and Moving Boundary Problems*, Clarendon Press, Oxford.
- [42] Das, S. and Rajeev. (2010). Solution of fractional diffusion equation with a moving boundary condition by variational iteration method and Adomian decomposition method. *Zeitschrift fur Naturforschung*, 65a:793-799.
- [43] Das, S., Kumar, R. and Gupta, P. K. (2011). Analytical approximate solution of space-time fractional diffusion equation with a moving boundary condition. *Zeitschrift fur Naturforschung*, 656a:281-288.
- [44] Doha, E. H., Bhrawy, A. H. and Ezz-Eldien, S. S. (2011a). A Chebyshev spectral method based on operational matrix for initial and boundary value problems of fractional order. *Comput. Math. Appl.*, 62:2364–2373.
- [45] Doha, E. H., Bhrawy, A. H. and Ezz-Eldien, S. S. (2011b). Efficient Chebyshev spectral methods for solving multi-term fractional orders differential equations. *Appl. Math. Model.*, 35:5662–5672.
- [46] Dragomirescu, F. I., Eisenschmidt, K., Rohde, C. and Weigand, B. (2016). Perturbation solutions for the finite radially symmetric Stefan problem. *Int. J. Therm. Sci.*, 104:386–395.

- [47] Eddy. and Daniel, M. (2014). How to See a Diagram: A Visual Anthropology of Chemical Affinity. *Osiris.*, 29:178–196. doi:10.1086/678093.
- [48] Eddy. and Daniel, M. (2015). Useful Pictures: Joseph Black and the Graphic Culture of Experimentation. in Robert G. W. Anderson (Ed.), *Cradle of Chemistry: The Early Years of Chemistry at the University of Edinburgh* (Edinburgh: John Donald), 99-118.
- [49] Elliott, C. M. and Ockendobn, J. R. (Eds.), (1982). *Weak and Variational methods for moving boundary problems*, Pitman, London.
- [50] Evans, G. W., Isaacson, E. and Macdonald, J. K. L. (1950). Stefan like problems. *Q. J. Mech. Appl. Math.*, 8:312-319.
- [51] Evans, J. A. (2009). *Frozen Food Science and Technology*, Wiley- Blackwell Publishing Ltd.
- [52] Fan, L. W., Zhu, Z. Q. and Liu, M. J. (2015). A similarity solution to unidirectional solidification of nano-enhanced phase change materials (NePCM) considering the mushy region effect. *Int. J. Heat Mass Transf.*, 86: 478–481.
- [53] Fazio, R. (2013). Scaling invariance and the iterative transformation method for a class of parabolic moving boundary problems. *Int. J. Non Linear Mech.*, 50:136–140.
- [54] Ferriss, D. H. and Hill, S. (1974). *Report NAC45*, National Physical Laboratory Teddington.
- [55] Fila, M. and Souplet, P. (2001). Existence of global solutions with slow decay and unbounded free boundary for a superlinear Stefan problem. *Interfaces Free Boundaries*, 3:337–344.
- [56] Finn, W. D. L. and Vorog'lu, E. (1979). Whiteman J. R. (Eds.), Finite element solution of the Stefan problem, *The Mathematics of Finite Elements and Applications*, MAFELAP 1978, Academic Press, New York.
- [57] Font, F. (2018). A one-phase Stefan problem with size-dependent thermal conductivity. *Appl. Math. Model.*, 63:172–178.
- [58] Ghoreishi, F. and Yazdani, S. (2011). An extension of the spectral Tau method for numerical solution of multi-order fractional differential equations with convergence analysis. *Comput. Math. Appl.*, 61:30–43.

- [59] Gliko, A. O. and Efimov, A. B. (1980). The method of a small parameter in the classical Stefan problem. *J. Eng. Phys. Thermophys.*, 38:211-216.
- [60] Goodman, T. R. (1958). The heat-balance integral and its application to problems involving a change of phase. *Trans. ASME*, 8:335-342.
- [61] Goodman, T. R. (1964). Application of integral method to transient heat transfer. *Adv. Heat Transf.*, Academic Press, New York, 1:51-122.
- [62] Goodman, T. R. and Shea, J. J. (1960). The melting of finite slabs. *J. Appl. Mech.*, 27:16-24.
- [63] Gorder, R. A. V. and Vajravelu, K. (2009). On the selection of auxiliary functions, operators, and convergence control parameters in the application of the Homotopy Analysis Method to nonlinear differential equations: A general approach, *Commun. Nonlinear Sci. Numer. Simulat.*, 14:4078-4089.
- [64] Gotz, I. G. and Zaltzmanns, B. (1995). Two-phase Stefan problem with super cooling. *SIAM J. Math. Anal.*, 26(3):694-714.
- [65] Grzymkowski, R. and Slota, D. (2006). Stefan problem solved by Adomian decomposition method. *Int. J. Comp. Math.*, 82:851-856.
- [66] Guo, B.Y. and Yan, J. P. (2009). Legendre–Gauss collocation method for initial value problems of second order ordinary differential equations. *Appl. Numer. Math.*, 59:1386–1408.
- [67] Gupta, R. S. and Kumar, D. (1980). Computer Methods in Applied Mechanics and Engineering, 23:101-109.
- [68] Gupta, S. C. (1986). Axisymmetric melting of a long cylinder due to an infinite flux. *Proc. Ind. Academy Sci.*, (Mathematical Science), 95:1-12.
- [69] Gupta, S.C. (2003). *The Classical Stefan Problem, Basic Concepts Modelling and Analysis*, Elsevier, Amsterdam.
- [70] Gupta, S.C. (2017). *The Classical Stefan Problem: Basic Concepts, Modelling and Analysis with Quasi-Analytical Solutions and Methods*, 2nd edition, Elsevier.
- [71] Hansen, E. B. and Hougard, P. (1974). On a moving boundary problem from biomechanics. *J. Ins. Math. Appl.*, 13:385-398.
- [72] Hill, J. M. (1987). *One-dimensional Stefan problems, An Introduction*, Longman Scientific and Technical, New York, USA.

- [73] Hill, J. M. (1986). The Stefan problem in nonlinear heat conduction. *J. Appl. Math. Phys.*, 37:206–229.
- [74] Huber, A. (1939). Über das Fortschreiten der Schmelzgrenze in einem linearen Leiter, *ZAMM*, 19:1-21.
- [75] Huntul, M. J. and Lesnic, D. (2017). An inverse problem of finding the time-dependent thermal conductivity from boundary data. *Int. Commun. Heat Mass Transf.*, 85:147–154.
- [76] Hussein, M. S. and Lesnic, D. (2014). Determination of a time-dependent thermal diffusivity and free boundary in heat conduction. *Int. Commun. Heat Mass Transf.*, 53:154–163.
- [77] Jafari, H., Saeidy, M. and Firozjaei, M. A. (2010). Homotopy analysis method: a tool for solving a Stefan problem. *J. Adv. Research Scientific Comp.*, 2:61-68.
- [78] Kawahara, M. and Umetsu, T. (1986). Finite element method for moving boundary problems in river flow. *Int. J. Num. Methods Fluids*, 6:365.
- [79] Khalida, M. Z., Zubair, M. and Ali, M. (2019). An analytical method for the solution of two phase Stefan problem in cylindrical geometry. *Appl. Math. Comp.*, 342:295–308.
- [80] Kolonder, I. I. (1956). Free boundary problem for the heat equation with applications to problems of change of phase. I. General method of solution. *Commu. Pure Appl. Math.*, 9:1-31.
- [81] Koriko, O. K. and Animasaun, I. L. (2017). New similarity solution of micropolar fluid flow problem over an UHSPR in the presence of quartic kind of autocatalytic chemical reaction. *Front. Heat Mass Transf.*, 8:26.
- [82] Kreith, F. and Romie, F. E. (1955). A study of the thermal diffusion equation with boundary conditions corresponding to solidification or melting of materials initially at the fusion temperature. *Proc. Phys. Soc.*, 68:277-291.
- [83] Kumar, A., Singh, A. K. and Rajeev. (2018a). A Stefan problem with temperature and time-dependent thermal conductivity. *J. King Saud Uni.-Sci.*, <https://doi.org/10.1016/j.jksus.2018.03.005>.

- [84] Kumar, A., Singh, A.K. and Rajeev. (2018b). A moving boundary problem with variable specific heat and thermal conductivity. *J. King Saud Uni.-Sci.*, doi.org/10.1016/j.jksus.2018.05.028.
- [85] Lamé, G. and Clapeyron, B. P. (1831). Memoire sur la solidification par refroidissement d'un globe liquid. *Ann. de Chimie et de Phys.*, 47:250.
- [86] Lardner, T. J. and Pohle, F. V. (1961). Application of the heat balance integral to problems of cylindrical geometry. *J. Appl. Mech.*, 28E:310-312.
- [87] Leibenzon, L. S. (1931). Handbook of Oil-Field Mechanics, Pt. 4, Hydraulics (in Russian), Moscow-Leningrad.
- [88] Li, T., Zhou, Y., Shi, X. Y., Hu, X. X. and Zhou, G. Q. (2018). Analytical solution for the soil freezing process induced by an infinite line sink. *Int. J. Thermal Sci.*, 127:232-241.
- [89] Li, X. and Sun, X. (2015). Similarity solutions for phase change problems with fractional governing equations. *Appl. Math. Lett.*, 45:7–11.
- [90] Li, X., Xu, M. and Jiang, X. (2009). Homotopy perturbation method to time-fractional diffusion equation with a moving boundary condition. *Appl. Math Comput.*, 208:434-39.
- [91] Liao, S. J. (1997). An approximate solution technique which does not depend upon small parameters: a special example. *Int. J. Non. Lin. Mech.*, 32:815-822.
- [92] Liao, S. J. (2009). Notes on the homotopy analysis method-Some definitions and theorems. *Common. Nonlinear Sci. Numer. Simulat.*, 14:983-997.
- [93] Liao, S. J. (2005). A new branch of solutions of boundary-layer flows over an impermeable stretched plate. *Int. J. Heat Mass Transf.*, 48:2529-2539.
- [94] Lunardini, V. J. (1991). *Heat Transfer with Freezing and Thawing*, Elsevier, Amsterdam.
- [95] Makinde, O.D., Sandeep, N., Ajayi, T.M. and Animasaun, I.L. (2018). Numerical exploration of heat transfer and lorentz force effects on the flow of MHD Casson fluid over an upper horizontal surface of a thermally stratified melting surface of a paraboloid of revolution. *Int. J. Nonlinear Sci. Num. Simul.*, 19 (2–3):93–106.
- [96] Meek, P. C. and Norbury, J. (1984). Nonlinear moving boundary problems and a Keller box scheme. *SIAM J. Numer. Anal.*, 21:883–893.

- [97] Mitchell, S. L. and Vynnycky, M. (2009). Finite-difference methods with increased accuracy and correct initialization for one-dimensional Stefan problems. *Appl. Math. Comp.*, 215:1609–1621.
- [98] Mitchell, S. L. and Vynnycky, M. (2016). On the accurate numerical solution of a two-phase Stefan problem with phase formation and depletion. *J. Comp. Appl. Math.*, 300:259–274.
- [99] Mitchell, S. L. and Vynnycky, M. (2014). On the numerical solution of two-phase Stefan problems with heat-flux boundary conditions. *J. Comp. Appl. Math.*, 264:49–64.
- [100] Natale, M. F. and Tarzia, D. A. (2003). Explicit solutions to the one-phase Stefan problem with temperature-dependent thermal conductivity and a convective term. *Int. J. Eng. Sci.*, 41:1685–1698.
- [101] Natale, M. F. and Tarzia, D. A. (2006). Explicit solutions for a one-phase Stefan problem with temperature-dependent thermal conductivity. *Boll. Unione Math. Ital.*, 8(9-B):79–99.
- [102] Ockendon, J. R. (1975). Hogkins W.R. (Eds.), *Moving boundary problems in heat flow and diffusion*, Clarendon Press, Oxford, U K.
- [103] Oliver, D. L. R. and Sunderland, J. E. (1987). A phase-change problem with temperature dependent thermal conductivity and specific heat. *Int. J. Heat Mass Transf.*, 30:2657–2661.
- [104] Onyejekwe, O. N. (2014). The solution of a one-phase Stefan problem with a forcing term by homotopy analysis method. *Int. J. Adv. Math. Sci.*, 2(2):95-100.
- [105] Ouedraogo, H., Ouedraogo, W. and Sangare, B. (2008). A self-diffusion mathematical model to describe the toxin effect on the zooplankton-phytoplankton dynamics. *Nonlinear Dynamics and Systems Theory*, 18(4):392-408.
- [106] Parand, K. and Razzaghi, M. (2004) Rational Chebyshev Tau method for solving higher-order ordinary differential equations. *Int. J. Comp. Math.*, 81(1):73-80.
- [107] Pedroso, R. I. and Demoto, G. A. (1973). Inword spherical solidification solution by the method of strained coordinates. *Int. J. Heat Mass Transf.*, 16:1037-1043.

- [108] Petrova, A., Tarzia, D. A. and Turner, C. (1994). The one-phase supercooled Stefan problem with temperature-dependent thermal conductivity and a convective term. *Adv. Math. Sci. Appl.*, 4 (1):35–50.
- [109] Poots, G. (1962). On the application of integral methods to the solution of problems involving the solidification of liquid initially at fusion temperature. *Int. J. Heat Mass Transf.*, 5:525-531.
- [110] Raheem, A. (2013). Existence and uniqueness of a solution of fisher-KKP type reaction diffusion equation. *Nonlinear Dynamics and Systems Theory*, 13(2):193-202.
- [111] Rajeev and Kushwaha, M. S. (2013). Homotopy perturbation method for a limit case Stefan problem governed by fractional diffusion equation. *Appl. Math. Model.*, 37:3589-3599.
- [112] Rajeev. (2014). Homotopy perturbation method for a Stefan problem with variable latent heat. *Therm. Sci.*, 18 (2):391–398.
- [113] Rajeev, Kushwaha, M. S. and Kumar, A. (2013). An approximate solution to a moving boundary problem with space–time fractional derivative in fluvio-deltaic sedimentation process. *Ain Shams Eng. J.*, 4:889-895.
- [114] Rajeev, Rai, K. N. and Das, S. (2009a). Numerical solution of a moving-boundary problem with variable latent heat. *Int. J. Heat Mass Transf.*, 52:1913-1917.
- [115] Rajeev, Rai, K. N. and Das, S. (2009b). Solution of one dimensional moving - boundary problem with periodic boundary conditions by variational iteration method. *Therm. Sci.*, 13:199-204.
- [116] Ramos, M., Cerrato, Y. and Gutierrez, J. (1994). An exact solution for the finite Stefan problem with temperature-dependent thermal conductivity and specific heat. *Int. J. Ref.*, 17(2):130-134.
- [117] Rizwan-Uddin. (1998). An approximate solution for Stefan problem with time dependent boundary conditions. *Numer. Heat Transf. Part B*, 33:269-285.
- [118] Rizwan-Uddin. (1999). One dimensional phase change problem with periodic boundary conditions. *Numer. Heat Transf. A*, 35:361-372.

- [119] Rogers, C. and Broadbridge, P. (1988). On a nonlinear moving boundary problem with heterogeneity: application of a reciprocal transformation. *Zeitschrift für Angewandte Mathematik und Physik (ZAMP)*, 39:122-128.
- [120] Rubinstein, L. I. (1947). On the solution of Stefan's problem (in Russian), *Izv. Akad. Nau SSSR Ser. Geograf. Geofiz.*, 11:37-54.
- [121] Rubinstein, L. I. (1971). *The Stefan problem*, American Mathematical Society, Providence, R.I., English Translation.
- [122] Sandeep, N., Chamkha, A. J. and Animasaun, I. L. (2017). Numerical exploration of magneto hydrodynamic nanofluid flow suspended with magnetite nanoparticles. *J. Brazil Soc. Mech. Sci. Eng.*, 39:3635–3644.
- [123] Savovic, S. and Caldwell, J. (2003). Finite difference solution of one-dimensional Stefan problem with periodic boundary conditions. *Int. J. Heat Mass transf.*, 46:2911-2916.
- [124] Singh, A. K., Kumar, A. and Rajeev. (2018a). A Stefan problem with variable thermal coefficients and moving phase change material. *J. King Saud Univ. – Sci.*, <https://doi.org/10.1016/j.jksus.2018.09.009>.
- [125] Singh, A. K., Kumar, A. and Rajeev. (2018b). Exact and approximate solutions of a phase change problem with moving phase change material and variable thermal coefficients. *J. King Saud Univ. – Sci.*,
- [126] Singh, J., Gupta, P. K. and Rai, K. N. (2011a). Homotopy perturbation method to space-time fractional solidification in a finite slab. *Appl. Math. Model.*, 35:1937-1945.
- [127] Singh, J., Gupta, P. K. and Rai, K. N. (2011b). Variational iteration method to solve moving boundary problem with temperature dependent physical properties. *Therm. Sci.*, 15:229-239.
- [128] Słota, D. and Zielonka, A. (2009). New application of He's variational iteration method for solution of the one-phase Stefan problem. *Comput. Math. Appl.*, 58:2489–2495.
- [129] Solomon, A. D., Wilson, D. G. and Alexiades, V. (1982). A mushy zone model with an exact solution. *Lett. Heat Mass Transf.*, 9:319–324

- [130] Soni, Z. L. B. (1999). Fast and accurate numerical approaches for Stefan problems and crystal growth. *Numer. Heat Transf.: Part B: Fundamentals*, 35:461-484.
- [131] Stavroulakis, I. P. and Tersian, S. A. (2004). *Partial differential equations: An introduction with Mathematica and Maple second edition*, World Scientific Publishing Company.
- [132] Stefan, J. (1889a). Über die diffusion von sauren und basen gegen einander. *Sitzungsberichte der Mathematisch-Naturwissenschaftlichen Klasse der Kaiserlichen Akademie der Wissenschaften in Wien. Mathem.-naturw.*, 98(2A):616–636.
- [133] Stefan, J. (1889b). Über die theorie der eisbildung, insbesondere über die eisbildung impolarmeere. *Sitzungsberichte der Mathematisch-Naturwissenschaftlichen Klasse der Kaiserlichen Akademie der Wissenschaften in Wien. Mathem.-naturw.*, 98 (2A):965–983.
- [134] Stefan, J. (1889c). Über die verdampfung und die auflösung als vorgänge der diffusion. *Sitzungsberichter der Mathematisch-Naturwissenschaftlichen Klasse der Kaiserlichen Akademie der Wissenschaften in Wien. Mathem.-naturw.*, 98(2A):1418–1442.
- [135] Stefan, J. (1889d). Über einige probleme der theorie der wärmeleitung. *Sitzungsberichte der Mathematisch-Naturwissenschaftlichen Klasse der Kaiserlichen Akademie der Wissenschaften in Wien. Mathem.-naturw.*, 98(2A): 473–484.
- [136] Swenson, J., Voller, V. R, Paola, C., Parker, G. and Marr, J. (2000). Fluvio-deltaic sedimentation: A generalized Stefan problem. *European J. Appl. Math.*, 11: 433-452.
- [137] Tarzia, D. A. (2004). An explicit solution for a two-phase unidimensional Stefan problem with a convective boundary condition at the fixed phase. *MAT-Ser. A*, 8:21–27.
- [138] Tarzia, D. A. (1990). Neumann-like solution for the two phase Stefan problem with a simple mushy zone model. *Comp. Appl. Math.*, 9: 201–211.

- [139] Tritscher, P. and Broadbridge, P. (1994). A similarity solution of a multiphase Stefan problem incorporating general non-linear heat conduction. *Int. J. Heat Mass Transf.*, 37(14):2113–2121.
- [140] Trueba, J. L. and Voller, V. (2010). Analytical and numerical solution of a generalized Stefan problem exhibiting two moving boundaries with application to ocean delta formation. *J. Math. Anal. Appl.*, 366:538-549.
- [141] Turkyilmazoglu, M. (2018). Stefan problems for moving phase change materials and multiple solutions. *Int. J. Therm. Sci.*, 126:67-73.
- [142] Vanani, S. K. and Aminataei, A. (2011). Tau approximate solution of fractional partial differential equations. *Comp. Math. Appl.*, 62:1075–1083.
- [143] Voller, V. R., Swenson, J. B. and Paola, C. (2004). An analytical solution for a Stefan problem with variable latent heat. *Int. J. Heat Mass Transf.*, 47:5387-5390.
- [144] Voller, V. R. (1990). Fast implicit finite difference method for the analysis of phase change problems. *Num. Heat Transf. B*, 17:155-169.
- [145] Voller, V. R. and Falcini, F. (2013). Two exact solutions of a Stefan problem with varying diffusivity. *Int. J. Heat Mass Transf.*, 58:80–85.
- [146] Vujanovic, B. and Baclic, B. (1976). Application of Gauss principle of least constrained to the nonlinear heat transfer. *Int. J. Heat Mass Transf.*, 19:721-730.
- [147] Weinbaum, S. and Jiji, L. M. (1977). Singular perturbation theory for melting or freezing in finite domains initially not at the fusion temperature. *Trans. ASME J. Appl. Mech.*, 44:25.
- [148] Wendland, W. L. (1985). On some mathematical aspects of boundary element methods for elliptic problems. In J. Whiteman, editor, *Mathematics of Finite Elements and Applications V*, pages 193–227, Academic Press, London.
- [149] Wilson, D. G. (1978). Existence and uniqueness for similarity solutions of one dimensional multi-phase Stefan problems. *SIAM J. Appl. Math.*, 35:135-147.
- [150] Yi, F. (2002). Two-Phase Stefan Problem as the Limit Case of Two-Phase Stefan Problem with Kinetic Condition. *J. Diff. Eqs.*, 183:189–207.
- [151] Yuen, W. W. (1980). Application of the heat-balance integral to melting problems with initial sub cooling. *Int. J. Heat Mass Transf.*, 23:1157-1160.

- [152] Zahran, M. A. (2009). On the derivation of fractional diffusion equation with an absorbent term and a linear external force. *Appl. Math. Model.*, 33:3088-3092.
- [153] Zaky, M. A., Doha, E. H. and Machado, J. A. T. (2018). A spectral numerical method for solving distributed-order fractional initial value problems. *J. Comput. Nonlinear Dynam.*, 13(10):101007.
- [154] Zerroukat, M. and Chatwin, C. R. (1994). *Computational moving boundary problems*, Research Studies Press.
- [155] Zhou, Y., Wang, Y. and Bu, W. (2014). Exact solution for a Stefan problem with latent heat a power function of position. *Int. J. Heat Mass Transf.*, 69:451-454.
- [156] Zhou, Y. and Li-jiang, X. (2015). Exact solution for Stefan problem with general power type latent heat using Kummer function. *Int. J. Heat Mass Transf.*, 84:114–118.
- [157] Zhou, Y., Shi, X. and Zhou, G. (2018). Exact solution for a two-phase Stefan problem with power-type latent heat. *J. Eng. Math.*, 110:1–13.
- [158] Zubair, S. M. and Chaudhry, M. A. (1994). Exact solution of solid-liquid phase-change heat transfer when subjected to convective boundary conditions. *Wärme und Stoffübertragung*, 30:77–81.