

CURRICULUM VITAE

Domingo Alberto TARZIA
September 2021

I. PERSONAL DATA AND ADDRESS

CONICET and Depto. Matemática,
FCE, Universidad Austral,
Paraguay 1950, S2000FZF Rosario, ARGENTINA.

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Argentine Passport # 08444474M valid to 18 September 2021
Italian Passport # YA9096069 valid to 2 March 2026

Position:

- **Retired Superior Researcher at CONICET** (Argentina) from 1 May 2017; Beginning 5 November 1983.
- **Professor on Applied Mathematics at Universidad Austral** (Rosario, Argentina) from 1 February 1991; Beginning 10 August 1970.
- **Vicepresident for Research at Universidad Austral** (Buenos Aires - Pilar – Rosario , Argentina) from January 2018 and continue.

Web page at Austral University: <https://austral.edu.ar/investigadores/tarzia-domingo-alberto/>

Web page at CONICET:

http://www.conicet.gov.ar/new_scp/detalle.php?id=22798&keywords=Domingo+alberto+tarzia&datos_academicos=yes

at CONICET Digital: <https://ri.conicet.gov.ar/author/6182>

Areas of interest are:

Primary: Partial differential equations (elliptic and parabolic), Free and moving boundary problems, Phase-change processes, Elliptic and parabolic variational inequalities, Optimal control theory by PDE, Corporate finance (financial break-even point).

Secondary: Numerical analysis, Optimization, Derivatives in Finance, Elliptic hemivariational inequalities.

Languages:

- Spanish: native
- French: very good, written and spoken (4 years of residence in France)
- Italian: very good, written and spoken (2 years of residence in Italy)
- English: good, written and spoken

Professional Associations:

- AMCA: Argentinean Society of Computational Mechanics (Argentina);
- AMS: American Mathematical Society (USA);
- AR-SIAM: Argentinean Section of SIAM (Argentina-USA). Vice-Chair from January 2007 to May 2014;
- ASAMACI: Argentinean Society for Industrial, Computational and Applied Mathematics (Argentina). Vice-chair from October 2008 to May 2011; President from May 2011 till May 2017;
- SADAF: Argentinean Society of Teachers in Finance (Argentina);
- SIAM: Society for Industrial and Applied Mathematics (USA);

- UMA: Argentinean Mathematical Society (Argentina).
- Formerly: UMI (Unione Matematica Italiana (Italy)), SBMAC (Sociedade de Matematica Aplicada e Computacional (Brazil)), MAA (Mathematical Association of America (USA)), NCTM (National Council of Teachers of Mathematics (USA)), MA (Mathematical Association (UK)), AFA (Asociación Física Argentina (Argentina)).

II. ACADEMIC DEGREES

1) **Bachelor in Mathematics** (Licenciado en Matemática), Facultad de Ciencias Exactas e Ingeniería, Universidad Nacional de Rosario, Rosario (Argentina), 1972.

2) **Bachelor in Physics** (Licenciado en Física), Facultad de Ciencias Exactas e Ingeniería, Universidad Nacional de Rosario, Rosario (Argentina), 1977.

3) **Magister in Numerical Analysis (Diplome d'Etudes Approfondies d'Analyse Numérique)**, Laboratoire Jacques-Louis Lions (ex Laboratoire d'Analyse Numérique), Université Pierre-et-Marie-Curie (Univ. Paris VI), Paris (France), 1977.

Advisor: Prof. Roland Glowinski.

4) **Doctorat de 3ème Cycle en Mathématiques Appliquées, Specialité: Analyse Numérique - Mécanique Théorique des Solides**, Laboratoire de Mécanique Théorique, Université Pierre-et-Marie-Curie (Univ. Paris VI), Paris (France), 1979.

Advisor: Prof. Georges Duvaut.

5) **Habilitation à Diriger des Recherches, Specialité: Mathématiques**, Laboratoire Jacques-Louis Lions (ex Laboratoire d'Analyse Numérique), Université Pierre-et-Marie-Curie (Univ. Paris VI), Paris (France), 1991.

Advisors: Prof. A. Damlamian - G. Duvaut (Paris, France), Prof. A. Fasano - M. Primicerio (Florence, Italy).

Referees from Univ. Paris VI: G. Bayada (Lyon), P. Bénilan (Besançon), J. Mossino (Paris).

Jury: G. Bayada, A. Bossavit, A. Damlamian, G. Duvaut (President), M. Frémond, D. Hilhorst, J. Mossino.

6) **Specialist in Finance**, Facultad de Ciencias Económicas y Estadísticas, Universidad Nacional de Rosario, Rosario (Argentina), 2007.

7) **Magister in Finance**, Facultad de Ciencias Económicas y Estadísticas, Universidad Nacional de Rosario, Rosario (Argentina), 2010.

Advisor: Prof. Guillermo López Dumrauf.

III. AWARD

Award "Alberto González Domínguez" in Mathematics –Year 1996- from Argentine Science National Academy, Buenos Aires, 22 November 1996.

Advisor:

11 PhD Thesis in Mathematics;

1 PhD Thesis in Physics;

1 PhD Thesis in Chemical Engineering (co-advisor);

6 Master Thesis in Applied Mathematics;

1 Master Thesis in Business Administration;

1 Master Thesis in Finance;

6 Bachelor Thesis in Physics;

8 Bachelor Thesis in Mathematics.

Personal Mathematics Genealogy Project: <http://genealogy.math.ndsu.nodak.edu/id.php?id=154850>

ORCID iD: <https://orcid.org/0000-0002-2813-0419>

Google Scholar: <https://scholar.google.com.ar/citations?user=WMzU7UUAAAAJ&hl=es>

Research Gate: www.researchgate.net/profile/Domingo_Tarzia

Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=55931080400>

Social Science Research Network (SSRN): <http://ssrn.com/author=1334899>

* Rubén Spies, "Historia de Domingo Tarzia y su rol como fundador de ASAMACI", Conferencia, VIII Congreso de Matemática Aplicada, Computacional e Industrial, La Plata, 3-7/05/2021 (VIII MACI 2021), video en youtube, 3 mayo 2021.

See: https://www.youtube.com/watch?v=5eIvRDiJdbg&ab_channel=MaciLaPlata

And complement: <https://www.youtube.com/watch?v=eBegmWrTcSE>

IV. BOOKS and BOOKLETS

- 1) D.A. TARZIA, "Introducción a las inecuaciones variacionales elípticas y sus aplicaciones a problemas de frontera libre", CLAMI-CONICET, No. 5, Buenos Aires (1981), (206 pages)
- 2) D.A. TARZIA, "The two-phase Stefan problem and some related conduction problems", Reuniões em Matemática Aplicada e Computacao Científica, Vol. 5, Sociedade Brasileira de Matemática Aplicada e Computacional, Rio de Janeiro (1987), (137 pages).
- 3) D.A. TARZIA, "A bibliography on moving-free boundary problems for the heat diffusion equation. The Stefan problem", Firenze (1988) (with 2528 titles on the subject), (103 pages).
- 4) D.A. TARZIA, "Transferencia de calor y materia con cambio de fase", en "Transferencia de Calor y Materia. Aspectos Fundamentales", 1ra Escuela de Postgrado en Transferencia de Calor y Materia ECAMAT'92, J.C. Ferreri (Ed.), CAMAT, Tandil (1992), Capítulo 2, pp. 2.1-2.46 (46 pages)
- 5) D.A. TARZIA, "A bibliography on moving-free boundary problems for the heat diffusion equation. The Stefan and related problems", MAT - Serie A, 2 (2000), 1-297 (with 5869 titles on the subject). Available from:

- [http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Tarzia-MAT-SerieA-2\(2000\).pdf](http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Tarzia-MAT-SerieA-2(2000).pdf)
- 6) D.A. TARZIA, "Curso de nivelación de Matemática", McGraw-Hill Interamericana, Santiago de Chile (2000), (381 pages).
 - 7) D.A. TARZIA, "Cómo pensar, entender, razonar, demostrar y crear en Matemática", MAT -Serie B, # 1, Rosario (2000), (76 pages).
 - 8) D.A. TARZIA, "Matemática: Operaciones numéricas y geometría del plano", MAT - Serie B, # 2, Rosario (2003), (80 pages).
 - 9) D.A. TARZIA, "Explicit and Approximated Solutions for Heat and Mass Transfer Problems with a Moving Interface", Chapter 20, In Advanced Topics in Mass Transfer, Mohamed El-Amin (Ed.), Rijeka (Croatia) (2011), pp. 439-484. ISBN: 978-953-307-333-0, INTECH Open Access Publisher (626 pages). Available from:

<http://www.intechopen.com/articles/show/title/explicit-and-approximated-solutions-for-heat-and-mass-transfer-problems-with-a-moving-interface>.

The book containing the chapter is available from:

<http://www.intechopen.com/books/show/title/advanced-topics-in-mass-transfer>

10) J. BOLLATI – M.F. NATALE – J.A. SEMITIEL - D.A. TARZIA, “Approximate solutions to the one-phase Stefan problem with non-linear temperature-dependent thermal conductivity”, Chapter 1 , In Heat Conduction: Methods, Applications and Research, J. Hristov – R. Bennacer (Eds.), Nova Science Publishers, Inc. (2019), pp1-20.

V. EDITOR OF CONGRESS

- 1) D.A. TARZIA (Ed.), "Seminario sobre el problema de Stefan y sus aplicaciones", CUADERNOS del Instituto de Matemática "Beppo Levi", No. 11 (178 pages) and 12 (196 pages), Rosario (1984). ISSN: 03250690.
- 2) D.A. TARZIA (Ed.), "II Seminario sobre el problema de Stefan y sus aplicaciones", CUADERNOS del Instituto de Matemática "Beppo Levi", No. 13 (60 pages) and 14 (172 pages), Rosario (1987). ISSN: 03250690.
- 3) D.A. TARZIA (Ed.), "III Seminario sobre problemas de frontera libre y sus aplicaciones", Cuadernos del Instituto de Matemática "Beppo Levi", No. 17 (152 pages) and 18 (100 pages), Rosario (1989). ISSN: 03250690.
- 4) D.A. TARZIA (Ed.), "IV Seminario sobre problemas de frontera libre y sus aplicaciones", Cuadernos del Instituto de Matemática "Beppo Levi", No. 23 (129 pages) and 24 (130 pages), Rosario (1993). ISSN: 03250690.
- 5) D.A. TARZIA (Ed.), "V Seminario sobre problemas de frontera libre y sus aplicaciones", Cuadernos del Instituto de Matemática "Beppo Levi", No. 25 (106 pages) and 26 (102 pages), Rosario (1995). ISSN: 03250690.
- 6) D.A. TARZIA (Ed.), "VI Seminario sobre problemas de frontera libre y sus aplicaciones", MAT-Serie A, # 3 (44 pages), # 4 (40 pages), # 5 (44 pages), Rosario (2001). ISSN: 1515-4904. Available from:
[http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Tarzia\(Ed\)-MAT-SerieA-3\(2001\).pdf](http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Tarzia(Ed)-MAT-SerieA-3(2001).pdf)
[http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Tarzia\(Ed\)-MAT-SerieA-4\(2001\).pdf](http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Tarzia(Ed)-MAT-SerieA-4(2001).pdf)
[http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Tarzia\(Ed\)-MAT-SerieA-5\(2001\).pdf](http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Tarzia(Ed)-MAT-SerieA-5(2001).pdf)
- 7) D. A. TARZIA (Ed.), “Primeras Jornadas Sobre Ecuaciones Diferenciales, Optimización y Análisis Numérico”, MAT – Serie A, # 7 (42 pages), # 8 (27 pages), Rosario (2004). ISSN: 1515-4904. Available from::
[http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Tarzia\(Ed\)-MAT-SerieA-7\(2005\).pdf](http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Tarzia(Ed)-MAT-SerieA-7(2005).pdf)
[http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Tarzia\(Ed\)-MAT-SerieA-8\(2005\).pdf](http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Tarzia(Ed)-MAT-SerieA-8(2005).pdf)
- 8) D. A. TARZIA – C. V. TURNER (Eds.), “Segundas Jornadas Sobre Ecuaciones Diferenciales, Optimización y Análisis Numérico”, MAT – Serie A, # 10 (22 pages), Rosario (2005). ISSN: 1515-4904. Available from::
[http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Tarzia-Turner\(Eds\)-MAT-SerieA-10\(2005\).pdf](http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Tarzia-Turner(Eds)-MAT-SerieA-10(2005).pdf)
- 9) M.C. MACIEL - D. A. TARZIA (Eds.), “Terceras Jornadas Sobre Ecuaciones Diferenciales, Optimización y Análisis Numérico”, MAT – Serie A, # 14 (40 pages), Rosario (2007). ISSN: 1515-4904. Available from::
[http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Maciel-Tarzia\(Eds\)-MAT-SerieA-14\(2007\).pdf](http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Maciel-Tarzia(Eds)-MAT-SerieA-14(2007).pdf)
- 10) D. A. TARZIA – R.H. MASCHERONI (Eds.), “Workshop on Mathematical Modelling of Energy and Transfer Processes, and Applications”, MAT – Serie A, # 15 (53 pages), Rosario (2008). ISSN: 1515-4904. Available from:
[http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Tarzia\(Ed\)-MAT-SerieA-15\(2008\).pdf](http://web.austral.edu.ar/descargas/facultad-cienciasEmpresariales/mat/Tarzia(Ed)-MAT-SerieA-15(2008).pdf)
- 11) E.M. MANCINELLI - E. A. SANTILLAN MARCUS - D. A. TARZIA (Eds.), II Congreso de Matemática Aplicada, Computacional e Industrial (II MACI 2009), ASAMACI, MACI, Vol. 2 (506 pages), Rosario (2009). Available from::
<http://asamaci.org.ar/wp-content/uploads/2012/03/MACI-Vol-2-2009.pdf>

- 12) G. ACOSTA – J. ETCHEVERRY – F. REITICH – R. SPIES – D. TARZIA – C. TURNER – A. WILL (Eds.), “TAMI 2010 – Taller de Matemática Industrial”, Cursos y Seminarios de Matemática, Serie B, Fascículo 6 (57 pages), Depto. Matemática, Fac. Cs. Exactas y Nat., UBA, Buenos Aires (2010). Available from:
<http://cms.dm.uba.ar/depto/public/CyS6.pdf>
- 13) D.A. TARZIA (Ed.), “VII Italian–Latin American Conference on Industrial and Applied Mathematics – Part 1”, MAT – Serie A, # 19 (42 pages), Rosario (2014). Available from:
[http://www.austral.edu.ar/cienciasempresariales/wp-content/uploads/2015/05/Tarzia\(Ed\)-MAT-SerieA-19\(2014\).pdf](http://www.austral.edu.ar/cienciasempresariales/wp-content/uploads/2015/05/Tarzia(Ed)-MAT-SerieA-19(2014).pdf)
- 14) D.A. TARZIA (Ed.), “VII Italian–Latin American Conference on Industrial and Applied Mathematics – Part 2”, MAT – Serie A, # 20 (38 pages), Rosario (2015). Available from:
[http://www.austral.edu.ar/cienciasempresariales/wp-content/uploads/2016/04/Tarzia\(Ed\)-MAT-SerieA-202015.pdf](http://www.austral.edu.ar/cienciasempresariales/wp-content/uploads/2016/04/Tarzia(Ed)-MAT-SerieA-202015.pdf)

VI. RESEARCH PUBLICATIONS (since 1979)

Research publications (since 1979)

Areas of research [numbers of papers published in scientific journals]:

- Free and moving boundary problems:
 - ✓ 1-dimensional Stefan-like Problem (phase-change and related processes): [5, 6, 7, 9, 12, 13, 14, 15, 16, 17, 18, 21, 22, 26, 29, 33, 35, 37, 38, 41, 44, 46, 47, 49, 50, 54, 55, 57, 59, 60, 61, 62, 66, 69, 71, 73, 75, 76, 79, 80, 82, 83, 84, 87, 89, 90, 92, 94, 97, 100, 101, 102, 103, 105, 106, 108, 109, 114, 115, 118, 125, 126, 128, 129, 130, 133, 135, 138, 139, 140, 141, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 154, 155, 156, 157, 158, 162, 165]
 - ✓ n-dimensional Stefan Problem (phase-change processes): [1, 2, 3, 4, 6, 8, 11, 19, 20, 23, 25, 48]
 - ✓ Freezing of high-water content material: [96, 111]
 - ✓ Fractional Stefan problem: [120, 126, 135, 146, 148, 149, 150, 162]
 - ✓ Diffusion-consumption of oxygen: [13, 99, 112, 123]
 - ✓ Binary-alloy solidification: [51]
 - ✓ Saturated-unsaturated flow: [53]
 - ✓ Heat –diffusion equation with absorption: [24, 28, 72]
 - ✓ Gas-solid systems: [42, 64]
 - ✓ Reaction-diffusion problems: [67]
 - ✓ Obstacle problem: [10, 113, 127, 132, 161]
- Elliptic variational/hemivariational/quasivariational inequalities: [2, 3, 4, 10, 19, 20, 23, 25, 27, 36, 39, 48, 56, 74, 77, 78, 85, 88, 93, 95, 98, 113, 119, 122, 127, 132, 160, 161, 164, 166, 167, 170, 171]
- Differential quasivariational inequalities: [166]
- Parabolic variational inequalities: [1, 8, 11, 91, 107, 116, 159, 169]
- Optimal control problems: [74, 78, 91, 93, 95, 98, 107, 113, 116, 119, 122, 127, 132, 159, 160, 161, 164, 166, 167, 169, 171]
- Optimization: [27, 32, 77, 160, 161, 164, 166, 167, 169, 171]
- Numerical analysis: [39, 45, 48, 56, 77, 81, 90, 96, 109, 119, 121, 127, 160, 162, 165]
- Explicit solution for elliptic problems: [4, 10, 19, 23, 27, 32, 36, 85, 160, 163, 168, 172]
- Explicit solution for parabolic problems: [1, 5, 7, 9, 12, 14, 15, 18, 21, 26, 29, 33, 35, 37, 41, 44, 47, 50, 51, 53, 54, 55, 58, 60, 61, 62, 70, 71, 75, 76, 79, 80, 82, 83, 84, 87, 89, 92, 94, 97, 100, 101, 102, 103, 106, 118, 120, 124, 125, 126, 128, 133, 135, 136, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 152, 154, 155, 157, 162, 165, 169, 172]

- Unknown thermal coefficients: [7, 9, 12, 14, 17, 18, 21, 35, 42, 47, 50, 54, 58, 92, 97, 105, 108, 115, 126, 128, 130, 135, 163, 168]
- Integrals equations: [30, 52, 63, 66, 69, 82, 83, 84, 104, 110, 124, 136, 142, 153]
- Fractional differential equations [120, 126, 135, 146, 148, 149, 150, 151, 162]
- Approximate methods (heat balance, quasi steady-state, etc.): [17, 28, 31, 34, 37, 40, 43, 65, 81, 96, 112, 123, 143, 145, 152, 156, 165]
- Root growth – Nutrient uptake – water uptake (agronomy-soil science): [31, 34, 37, 40, 43, 65, 71, 81, 86, 121, 137]
- Solid-solid interface [165, 168, 172]
- Non-classical heat equations: [30, 52, 63, 69, 82, 84, 101, 104, 110, 117, 124, 136, 142, 153]
- Ordinary differential equations: [134, 139, 142, 145, 152, 154, 158]
- Contact Mechanics: [161, 164, 166, 167, 170, 171]
- Quantitative finance: [131]

VI.1. Journal Articles:

- 1) D.A. TARZIA, "Sur le problème de Stefan à deux phases", Comptes Rendus de l'Academie des Sciences de Paris, 288 A (1979), 941-944.
- 2) D.A. TARZIA, "Aplicación de métodos variacionales en el caso estacionario del problema de Stefan a dos fases", Mathematicae Notae, 27 (1979-1980), 145-156.
- 3) D.A. TARZIA, "Una familia de problemas que converge hacia el caso estacionario del problema de Stefan a dos fases", Mathematicae Notae, 27 (1979-1980), 157-165.
- 4) D.A. TARZIA, "Sobre el caso estacionario del problema de Stefan a dos fases", Mathematicae Notae, 28 (1980-1981), 73-89.
- 5) D.A. TARZIA, "An inequality for the coefficient σ of the free boundary $s(t)=2\sigma\sqrt{t}$ of the Neumann solution for the two-phase Stefan problem", Quarterly of Applied Mathematics, 39 (1981-1982), 491-497.
- 6) D.A. TARZIA, "Una revisión sobre problemas de frontera móvil y libre para la ecuación del calor. El problema de Stefan", Mathematicae Notae, 29 (1981-1982), 147-241.
- 7) D.A. TARZIA, "Determination of the unknown coefficients in the Lamé -Clapeyron problem (or one-phase Stefan problem)", Advances in Applied Mathematics, 3 (1982), 74-82.
- 8) D.A. TARZIA, "Etude de l'inéquation variationnelle proposée par Duvaut pour le problème de Stefan à deux phases, I", Bollettino dell'Unione Matematica Italiana, 1B (1982), 865-883.
- 9) M.B. STAMPELLA - D.A. TARZIA, "Determinación de coeficientes desconocidos en el problema de Stefan a dos fases", SIGMA (Revista de Matemáticas Aplicadas), 8 (1982), 83-98.
- 10) G.G. GARGUICHEVICH - M.B. STAMPELLA - D.A. TARZIA, "On the obstacle problem", Mathematicae Notae, 30 (1983), 67-79.
- 11) D.A. TARZIA, "Etude de l'inéquation variationnelle proposée par Duvaut pour le problème de Stefan à deux phases, II", Bollettino dell'Unione Matematica Italiana, 2B (1983), 589-603.
- 12) D.A. TARZIA, "Simultaneous determination of two unknown thermal coefficients through an inverse one-phase Lamé-Clapeyron (Stefan) problem with an overspecified condition on the fixed face", International Journal of Heat and Mass Transfer, 26 (1983), 1151-1158.
- 13) E. COMPARINI - R. RICCI - D.A. TARZIA, "Remarks on a one dimensional Stefan problem related to the diffusion-consumption model", Zeitschrift fur Angewandte Mathematik und Mechanik (ZAMM), 64 (1984), 543-550.
- 14) D.A. TARZIA, "A new variant for the simultaneous calculation of some thermal coefficients of a semi-infinite material through a phase-change problem with an over-condition on the fixed face",

- Latin American Journal on Heat and Mass Transfer (now Latin American Applied Research), 8 (1984), 227-235.
- 15) A.B. BANCORA - D.A. TARZIA, "On the Neumann solution for the two-phase Stefan problem including the density jump at the free boundary", Latin American Journal on Heat and Mass Transfer (now Latin American Applied Research), 9 (1985), 215-222.
- 16) E. COMPARINI - D.A. TARZIA, "A Stefan problem for the heat equation subject to an integral condition", Rendiconti Seminario Matematico dell'Università di Padova, 73 (1985), 119-136.
See: http://archive.numdam.org/article/RSMUP_1985_73_119_0.pdf
- 17) G.G. GARGUICHEVICH - M.C. SANZIEL - D.A. TARZIA, "Comparison of approximate methods for the determination of thermal coefficients through a phase-change problems", International Communications in Heat and Mass Transfer, 12 (1985), 451-464.
- 18) D.A. TARZIA, "Determination of unknown thermal coefficients of a semi-infinite material for the one-phase Lamé-Clapeyron (Stefan) problem through the Solomon-Wilson-Alexiades mushy zone model", International Communications in Heat and Mass Transfer, 14 (1987), 219-228.
- 19) D.A. TARZIA, "An inequality for the constant heat flux to obtain a steady-state two-phase Stefan problem", Engineering Analysis with Boundary Elements (formerly Engineering Analysis), 5 (1988), 177-181.
- 20) D.A. TARZIA, "Mixed elliptic problems with solutions of non-constant sign", Revista de la Unión Matemática Argentina, 34 (1988), 31-55.
See: <http://inmabb.criba.edu.ar/revuma/pdf/v34/p031-055.pdf>
- 21) M.B. STAMPELLA - D.A. TARZIA, "Determination of one or two unknown thermal coefficients of a semi-infinite material through a two-phase Stefan problem", International Journal of Engineering Science, 27 (1989), 1407-1419.
- 22) D.A. TARZIA - L.T. VILLA, "On the free boundary problem in the Wen-Langmuir shrinking core model for noncatalytic gas-solid reactions", Meccanica, 24 (1989), 86-92.
- 23) E.D. TABACMAN - D.A. TARZIA, "Sufficient and/or necessary conditions for the heat transfer coefficient on Γ_1 and the heat flux on Γ_2 to obtain a steady-state two-phase Stefan problem", Journal of Differential Equations, 77 (1989), 16-37.
- 24) R. RICCI - D.A. TARZIA, "Asymptotic behavior of the solution of the dead-core problems", Nonlinear Analysis, Theory, Methods and Applications, 13 (1989), 405-411.
- 25) J.E. BOUILLET - M. SHILLOR - D.A. TARZIA, "Critical outflow for a steady-state Stefan problem", Applicable Analysis, 32 (1989), 31-51.
- 26) M.C. SANZIEL - D.A. TARZIA, "Necessary and sufficient condition to obtain n phases in a one-dimensional medium with a flux condition on the fixed face", Mathematicae Notae, 33 (1989), 25-32.
- 27) R.L.V. GONZALEZ - D.A. TARZIA, "Optimization of heat flux in a domain with temperature constraints", Journal on Optimization, Theory and Applications, 65 (1990), 245-256.
- 28) D.A. TARZIA, "A variant of the heat balance integral method and a new proof of the exponentially fast asymptotic behavior of the solutions in heat conduction problems with absorption", International Journal of Engineering Science, 28 (1990), 1253-1259.
- 29) D.A. TARZIA, "Neumann-like solution for the two-phase Stefan problem with a simple mushy zone model", Computational and Applied Mathematics (ex Matemática Aplicada e Computacional), 9 (1990), 201-211.
- 30) D.A. TARZIA - L.T. VILLA, "Remarks on some nonlinear initial boundary value problems in heat conduction", Revista de la Unión Matemática Argentina, 35 (1990), 265-275.
See: <http://inmabb.criba.edu.ar/revuma/pdf/v35/p265-275.pdf>
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VI.2. International Conference Proceedings articles:

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VI.3. Seminars or conferences given in:

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Communications given in:

Aguas do Lindoia (San Pablo, Brazil), Chiba (Japan), Cambridge (UK), Chiemsee (Germany), Coimbra (Portugal), Erice (Italy), Falerna (Italy), Gaeta (Italy), Hamburg (Germany), Heraklion-Crete (Greece), Irsee-Bavaria (Germany), Lyon (France), Madrid (Spain), Maubuisson (France), Milan (Italy), Montreal (Canada), Natal (Brazil), Perpignan (France), Seville (Spain), Sophia-Antipolis (Antibes, France), Stockholm (Sweden), Vancouver (Canada), Zakopane (Poland), Zurich (Switzerland).

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Domingo Alberto Tarzia