

PROF. ING. VALENTINA SALOMONI, PHD

PUBBLICAZIONI
ORDINATE PER
TIPOLOGIA

PUBBLICAZIONI SU RIVISTA INTERNAZIONALE

1. C.E. Majorana, V. Salomoni, S. Secchi, "Effects of mass growing on mechanical and hygrothermic response of three-dimensional bodies", **Journal of Materials Processing Technology**, PRO064/1-3, 277-286, 1997 (ISSN: 0924-0136, ISI: A1997WU63600031).
2. C.E. Majorana, V. Salomoni, B.A. Schrefler, "Some observations about strain localisation and shear band formation in concrete samples", **Journal of Materials Processing Technology**, 78, 128-137, 1998 (ISSN: 0924-0136, ISI: 000074643900021).
3. C.E. Majorana, V. Salomoni, B.A. Schrefler, "Hygrothermal and mechanical model of concrete at high temperature", **Materials and Structures**, 31, 378-386, 1998 (ISSN: 1359-5997, ISI: 000074788300006).
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6. C.E. Majorana, V.A. Salomoni, "Parametric analyses of diffusion of activated sources in disposal forms", **Journal of Hazardous Materials**, A113, 45-56, 2004 (ISSN: 0304-3894, ISI: 000224159100005, DOI: 10.1016/j.jhazmat.2004.06.008).
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10. V.A. Salomoni, B.A. Schrefler, "Stabilized coupled modeling of creep phenomena for saturated porous media", **International Journal for Numerical Methods in Engineering (Special Issue)**, 66(10), 1587-1617, 2006 (ISSN: 0029-5981, ISI: 000238323100006, DOI: 10.1002/nme.1694).

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12. G.M. Giannuzzi, C.E. Majorana, A. Miliozzi, V.A.L. Salomoni, D. Nicolini, "Structural design criteria for steel components of parabolic-trough solar concentrators", **Journal of Solar Energy Engineering**, 129, 382-390, 2007 (ISSN: 0199-6231, DOI: 10.1115/1.2769699).
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18. M. Cristani, C.E. Majorana, V. Salomoni, "Knowledge Representation Issues in Structural Engineering: a Framework for Application in the case of Structures in Healthcare", **International Journal of Technology Management**, 47(1/2/3), 207-238, 2009 (ISSN: 0267-5730).
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25. V.A. Salomoni, R. Fincato, "3D subsidence analyses above gas reservoirs accounting for an unconventional plasticity model", **International Journal for Numerical and Analytical Methods in Geomechanics**, 36(8), 959-976, 2012 (DOI: 10.1002/nag.1032).
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31. G. Mazzucco, D. Muraro, V. Salomoni, C. Majorana, D. Marcuzzi, W. Rigato, P. Sonato, P. Zaccaria, V. Toigo, T. Inoue, J. Takemoto, H. Tobar, K. Tsuchida, H. Yamanaka, K. Watanabe, "Structural analyses and integrated design of the MITICA Injector assembly", **Fusion Engineering and Design**, 88, 849-853, 2013 (DOI:10.1016/j.fusengdes.2013.01.078).
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35. G. Xotta, G. Mazzucco, V.A. Salomoni, C.E. Majorana, K.J. Willam, "Composite behaviour of concrete materials under high temperatures", **International Journal of Solids and Structures**, 64-65, 86-99, 2015 (DOI: 10.1016/j.ijsolstr.2015.03.016).
36. N. Spiezia, V.A. Salomoni, C.E. Majorana, "Plasticity and strain localization around a horizontal wellbore drilled through a porous rock formation", **International Journal of Plasticity**, 78, 114-144, 2016 (DOI: 10.1016/j.ijplas.2015.10.013).
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47. G. Mazzucco, B. Pomaro, V.A. Salomoni, C.E. Majorana, "Apex control within an elasto-plastic constitutive model for confined concretes", **Mathematics and Computers in Simulation**, 162, 221-232, 2019 (DOI: 10.1016/j.matcom.2018.12.017).
48. B. Pomaro, F. Gramegna, R. Cherubini, V. De Nadal, V. Salomoni, F. Faleschini, "Gamma-ray shielding properties of heavyweight concrete with EAF aggregates: an experimental and numerical study", **Construction and Building Materials**, 200, 188-197, 2019 (DOI: 10.1016/j.conbuildmat.2018.12.098).

PUBBLICAZIONI SU RIVISTA NAZIONALE

1. B.A. Schrefler, G. Bolzon, V. Salomoni, L. Simoni, "On compaction in gas reservoirs", **Atti dell'Accademia Nazionale dei Lincei, Rendiconti Lincei – Scienze Fisiche e Naturali**, serie IX, VIII, fasc. IV, 235-248, 1997 (ISSN: 0392-7881).

LIBRI (EDITORE)

1. C. Majorana, V. Salomoni, T. S. Lok (Eds.), "Proceedings of the 3[^] Int. Conf. on Protection of Structures Against Hazards", Sept. 28-29, Venice, Italy; CI-Premier Pte Ltd Pub., Singapore, 2006 (ISBN: 981-05-5561-X).
2. M. Grantham, C. Majorana, V. Salomoni, (Eds.), "Concrete Solutions", Taylor & Francis Group Pub., London, 2009 (ISBN: 978-0-415-55082-6).

CAPITOLI DI LIBRO

1. C.E. Majorana, V.A. Salomoni, "Modelli avanzati di comportamento dei solidi biologici", In: F. Montevocchi (Ed.), "Meccanica nei tessuti biologici", Patron, Bologna, 131-142, 1997 (**didattico**).
2. V.A. Salomoni, C.E. Majorana, G. Mazzucco, G. Xotta, G.A. Khoury, "Multiscale Modelling of Concrete as a Fully Coupled Porous Medium", in: J.T. Sentowski (Ed.), "Concrete Materials: Properties, Performance and Applications", Ch. 3, NOVA Publishers, 171-231, 2009 (ISBN: 978-1-60741-250-2).
3. V.A. Salomoni, C.E. Majorana, G.M. Giannuzzi, A. Miliozzi, D. Nicolini, "New trends in designing parabolic trough solar concentrators and heat storage concrete systems in solar power plants", in: Radu D. Rugescu (Ed.), "Solar Energy", IN-TECH Pub., 267-292, 2010 (ISBN: 978-953-307-052-0).
4. B. Pomaro, C.E. Majorana, V.A. Salomoni, F. Gramegna, G. Prete, "A numerical approach for radiation assessment on concrete subject to a cyclic irradiation profile, combining Finite Elements and the Monte Carlo technique", In: G. Zavarise, D. Boso (Eds.), "Bytes and Science", International Centre for Numerical Methods in Engineering (CIMNE), Barcelona, Spain, 85-98, 2012 (ISBN: 978-84-940243-2-0).

5. V.A. Salomoni, C.E. Majorana, G.M. Giannuzzi, R. Di Maggio, F. Girardi, D. Mele, M. Lucentini, "Conceptual Study of a Thermal Storage Module for Solar Power Plants with Parabolic Trough Concentrators", in: R. Rugescu (Ed.), "The Applications of Solar Energy", In-Tech Publications, 151-181, 2013 (ISBN: 978-953-51-0969-3) (DOI: 10.5772/54060).

KEYNOTE LECTURES/INVITED PAPERS

1. C.E. Majorana, V. Salomoni, "Strain localization in concrete using damage mechanics", Proc. 5th Int. Conf. on Computational Plasticity/COMPLAS V, March 17-20, Barcelona, Spain, 728-734, 1997 (ISBN: 84-87867-71-5) (**invited paper**).
2. V. A. Salomoni, "Predicted Responses of Structures Subjected to Blast and Blast-Induced Phenomena", 2nd Int. Conf. on Protection of Structures Against Hazards, Dec. 01-03, Singapore, 2004 (ISBN: 981-05-0613-9) (**keynote lecture**).
3. V. A. Salomoni, G. M. Giannuzzi, C. E. Majorana, A. Miliozzi, D. Nicolini, "Structural design of parabolic-trough solar concentrators' steel components against wind and natural hazards", In: Majorana, Salomoni, Lok (Eds.), 3rd Int. Conf. on Protection of Structures Against Hazards, 73-80, 2006 (ISBN: 981-05-5561-X) (**keynote lecture**).
4. V.A. Salomoni, C.E. Majorana, A. Miliozzi, "Thermal-fluid flow within innovative heat storage concrete systems for solar power plants", 14th International Conference on Finite Elements in Flow Problems, March 26–28, Santa Fe, New Mexico, USA, 2007 (**invited paper**).
5. C.E. Majorana, V.A. Salomoni, "FEM implementation of multiplicative plasticity in finite strains by means of the "dissipation theory"", PLASTICITY 2007 - 13th Int. Symposium on Plasticity and its Current Applications, June 2-6, Girwood, Alaska, 2007 (**invited paper**).
6. C.E. Majorana, V.A. Salomoni, "Elastoplastic damaged behaviour of thin shells in finite displacements and rotations", PLASTICITY 2007 - 13th Int. Symposium on Plasticity and its Current Applications, June 2-6, Girwood, Alaska, 2007 (**invited paper**).
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8. V.A. Salomoni, C.E. Majorana, G.A. Khoury, "Stress-strain experimental-based modeling of concrete under high temperature conditions", In: B.H.V. Topping (Ed.), Civil Engineering Computations: Tools and Techniques, Ch. 14, Saxe-Coburg Publications, 319-346, 2007 (ISBN: 978-1-874672-32-6) (**Special Invited lecture**).
9. C.E. Majorana, V.A. Salomoni, "Finite strain modelling of concrete at high temperatures", In: "European Seminar on Coupled Problems", Institute of Thermomechanics of the Academy of Science of Czech Republic, June 8-13, Prague, Czech Republic, 2008 (**keynote lecture**).
10. V.A. Salomoni, C.E. Majorana, G. Mazzucco, G. Xotta, "Heat and fluid flow in concrete as a composite material", WCCM8 - 8th World Congress on Computational Mechanics, June 30–July 4, Venice Island, Italy, 2008 (**invited paper**).

11. G.M. Giannuzzi, V.A. Salomoni, A. Miliozzi, C.E. Majorana, "Innovative heat storage concrete systems for solar power plants", WCCM8 - 8th World Congress on Computational Mechanics, June 30–July 4, Venice Island, Italy, 2008 (**invited paper**).
12. V.A. Salomoni, G.M. Giannuzzi, C.E. Majorana, A. Miliozzi, "Structural steel components optimization of parabolic-trough solar concentrators", WCCM8 - 8th World Congress on Computational Mechanics, June 30 – July 4, Venice Island, Italy, 2008 (**invited paper**).
13. V.A. Salomoni, C.E. Majorana, G.A. Khoury, "Stress-strain modeling of heated concrete", WCCM8 - 8th World Congress on Computational Mechanics, June 30–July 4, Venice Island, Italy, 2008 (**invited paper**).
14. G.A. Khoury, C.E. Majorana, V.A. Salomoni, "Polypropylene fibres and explosive spalling in Tunnel constructions", WCCM8 - 8th World Congress on Computational Mechanics, June 30–July 4, Venice Island, Italy, 2008 (**invited paper**).
15. C.E. Majorana, V.A. Salomoni, G.M. Giannuzzi, A. Miliozzi, "Analysis of thermally-induced vibrations in a pipe component of parabolic-trough solar concentrators, by a nonlinear dynamics approach", TCN CAE 2008, International Conference on Simulation based Engineering and Sciences, October 16-17, Venice, Italy, 2008 (**keynote lecture**).
16. C.E. Majorana, V.A. Salomoni, G. Mazzucco, G. Xotta, "Nonlinear analysis of concrete as an heterogeneous material", 15th International Symposium, Plasticity 2009, Jan. 3-8, St. Thomas, US Virgin Islands, USA, 2009 (**invited paper**).
17. C.E. Majorana, V.A. Salomoni, G. Mazzucco, G. Zavarise, "Contact analysis of elastoplastic-damaged thin shells subject to finite displacements and rotations", 15th International Symposium, Plasticity 2009, Jan. 3-8, St. Thomas, US Virgin Islands, USA, 2009 (**invited paper**).
18. G. Khoury, C.E. Majorana, V. Salomoni, "Polypropylene fibres and explosive spalling", First International Workshop on Concrete Spalling due to Fire Exposure, September 3-5, Leipzig, Germany, 2009 (**keynote lecture**).
19. V.A. Salomoni, "Ground subsidence risk scenarios in Italy", 4th Int. Conf. on Protection of Structures Against Hazards, October 24-25, Beijing, China, 2009 (**keynote lecture**).
20. C. Majorana, V. Salomoni, G. Khoury, "Computational and Experimental Analysis of Spalling Process in Heated Concrete", International Symposium on Plasticity 2010, Jan. 3-8, St. Kitts, USA, 2010 (**invited paper**).
21. C. Majorana, G. Mazzucco, C. Pellegrino, V. Salomoni, "Numerical and Experimental Analyses of Welding Processes with Engineering Applications", International Symposium on Plasticity 2010, Jan. 3-8, St. Kitts, USA, 2010 (**keynote lecture**).
22. V. Salomoni, C. Majorana, G. Mazzucco, G. Zavarise, "Dynamic Thermo-Electro-Mechanical Nonlinear Behaviour of Shell-to-Shell in Contact", International Symposium on Plasticity 2010, Jan. 3-8, St. Kitts, USA, 2010 (**invited paper**).
23. B. Pomaro, V.A. Salomoni, F. Gramegna, G. Prete, C.E. Majorana, "Radiation damage in the target area shielding of a facility for Selective Production of Exotic Species (SPES

Project): application with the neutron spectrum delivered by n-TOF on concrete”, Symposium n. 147, IV European Conf. on Comp. Mech. Solids, Structures and Coupled Problems in Engrg, ECCM10, May 16-21, Paris, France, 2010 (**invited paper**).

24. V.A. Salomoni, R. Fincato, “The subloading surface plasticity model for modelling subsidence at regional scale”, Coupled Problems 2011, IV International Conference on Computational Methods for Coupled Problems in Science and Engineering, June 20-22, Kos Island, Greece, 2011 (**invited paper**).

25. G. Xotta, V.A. Salomoni, C.E. Majorana, “Effect of aggregates and ITZ on visco-damaged response of concrete at the meso scale level”, Coupled Problems 2011, IV International Conference on Computational Methods for Coupled Problems in Science and Engineering, June 20-22, Kos Island, Greece, 2011 (**invited paper**).

26. G. Mazzucco, V.A. Salomoni, C.E. Majorana, “Contact-damage modelling of FRP reinforcements under variable loading times”, Coupled Problems 2011, IV International Conference on Computational Methods for Coupled Problems in Science and Engineering, June 20-22, Kos Island, Greece 2011 (**invited paper**).

27. V.A. Salomoni, G. Mazzucco, G. Xotta, R.L. Fincato, M. Schiavon, C.E. Majorana, “Non-linear modelling, design and production of steel blast-resistant doors and windows”, Coupled Problems 2011, IV International Conference on Computational Methods for Coupled Problems in Science and Engineering, June 20-22, Kos Island, Greece, 2011 (**invited paper**).

28. B. Pomaro, V.A. Salomoni, F. Gramegna, G. Prete, C.E. Majorana, “Radiation damage assessment on nuclear facilities using Monte Carlo techniques”, Coupled Problems 2011, IV International Conference on Computational Methods for Coupled Problems in Science and Engineering, June 20-22, Kos Island, Greece, 2011 (**invited paper**).

29. C.E. Majorana, G. Mazzucco, V.A. Salomoni, “Coupled thermomechanical analysis of steel welding processes”, Coupled Problems 2011, IV International Conference on Computational Methods for Coupled Problems in Science and Engineering, June 20-22, Kos Island, Greece, 2011 (**keynote lecture**).

30. C.E. Majorana, B. Pomaro, V.A. Salomoni, F. Gramegna, G. Prete, “Concrete as a multiphase material in biological shields against nuclear radiation”, In: B.H.V. Topping and Y. Tsompanakis (Eds.), Civil and Structural Engineering, Computational Technology, Ch. 2, 35-64, Saxe-Coburg Publications, 2011 (ISBN: 978-1-874672-55-5) (**Special Invited Lecture**).

31. V.A. Salomoni, K. Hashiguchi, R. Fincato, G. Xotta, “An unconventional plasticity approach for 3D modelling of geomaterials”, Plasticity 2012, 18th International Symposium on Plasticity and its Current Applications, January 3-8, San Juan, PR, USA, 2012 (**invited paper**).

32. C.E. Maiorana, G. Mazzucco, V.A. Salomoni, “Plasticity functions for thermomechanical analysis of steel welding processes”, Plasticity 2012, 18th International Symposium on Plasticity and its Current Applications, January 3-8, San Juan, PR, USA, 2012 (**invited paper**).

33. V.A. Salomoni, K. Hashiguchi, R. Fincato, “Extended subloading surface in a coupled hydro-(thermo-)mechanical formulation for geomaterials”, Coupled Problems 2013, V

International Conference on Computational Methods for Coupled Problems in Science and Engineering, June 17-19, Ibiza Island, Spain, 2013 (**invited paper**).

34. V.A. Salomoni, K. Hashiguchi, R. Fincato, G. Xotta, "An unconventional plasticity approach for a coupled visco-elasto-plastic analysis for concrete", Coupled Problems 2013, V International Conference on Computational Methods for Coupled Problems in Science and Engineering, June 17-19, Ibiza Island, Spain, 2013 (**invited paper**).

35. C. Majorana, V. Salomoni, G. Xotta, B. Pomaro, G. Mazzucco, "Computational issues in multifield, multiscale, 3D structural engineering", In J. Kruis, Y. Tsompanakis and B.H.V. Topping (Eds.), Computational techniques for Civil and Structural Engineering, Saxe-Coburg Publications, 1-41, 2015 (ISSN: 1759-3158) (**invited paper**).

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