

## ALBERTO TALIERCIO - CURRICULUM VITAE

*English version:*

### Academic career

- Born in Milan (Italy), December 23, 1959
- June 1984: graduation *cum laude* in Civil Engineering (option: Structures), Politecnico di Milano
- October 1989: PhD in Structural Engineering, Politecnico di Milano
- October 1989: awarded of the price in memory of R. Baldacci and M. Capurso as co-author of the best paper in Structural Mechanics
- June 1990-October 1992: Assistant Professor (Ricercatore) at the School of Engineering, Politecnico di Milano
- November 1992-February 2001: Associate Professor in Structural Mechanics (Scienza delle Costruzioni) at the School of Engineering, University of Parma (Nov. 1992-Oct. 1994), then at the School of Engineering, Politecnico di Milano (at Lecco campus since June 1997).
- September 1998-August 2001: ‘Professeur chargé de cours’ at Ecole Polytechnique, Paris, France
- Since March 2001: Full Professor in Structural Mechanics (Scienza delle Costruzioni) at the School of Civil, Environmental and Land Management Engineering, Politecnico di Milano

### Academic duties

- 1995-2013: member of the Teaching Staff of the Doctoral School in Structural Engineering (later, Structural, Seismic and Geotechnical Engineering), Politecnico di Milano
- 2008-2010: member of the Teaching Staff of the Doctoral School in Doctoral program in Architecture, Urban Design, Conservation of Housing and Landscape, Politecnico di Milano
- November 1996-October 1999, November 2002-December 2005, January 2009-December 2012: member of the directory board (Giunta) of the Department of Structural Engineering, Politecnico di Milano
- November 2001-October 2003 and November 2003-October 2005: member of the directory board (Giunta) of the School of Civil, Environmental and Land Management Engineering, Politecnico di Milano
- February 2009-December 2010: Vice-Dean of the School of Civil, Environmental and Land Management Engineering, Politecnico di Milano.
- January 2011-December 2017: Coordinator of the Degree Program in Civil Engineering, Politecnico di Milano
- Since February 2019: Dean of the School of Civil, Environmental and Land Management Engineering, Politecnico di Milano.

### Teaching

- Since 1992: in charge of BSc and MSc courses of (i) Structural mechanics (Scienza delle Costruzioni) for Building, Civil, Management, Mechanical Engineering students, Politecnico di Milano and Infrastructure Engineering students, Parma University; (ii) Solid mechanics for Energy and Mechanical Engineering students, Politecnico di Milano; (iii) Computational structural mechanics for Civil Engineering students, Parma University; (iv) Advanced structural mechanics (Scienza delle Costruzioni II) for Civil Engineering students, Politecnico di Milano; (v) Assessment of Historical Buildings for Civil Engineering students, Politecnico di Milano
- In 2005: in charge of the PhD course “Mechanics of Composite Materials” at the Doctoral

School in Structural Engineering, Politecnico di Milano

- Author of three textbooks.

#### Research activity

- Author or co-author of nearly 150 scientific papers published in international and national journals, proceedings of international and national conferences, book chapters
- h-index: 18, total number of citations: 804 (source: Scopus)
- Reviewer for various international journals (Comput. Struct., Constr. Build. Mat., Eur. J. Mech. A/Solids, Int. J. Solids Struct., Meccanica, etc.)
- Main fields of research: Mechanics of composite and anisotropic materials, analysis and modelling of damage and creep phenomena in concrete and masonry, structural and topology optimization
- Associated investigator of Milan Research Unit in the 2004 Research Project “Microstructural problems and models: applications in structural and civil engineering” (30/11/04-30/11/06) financed by the Italian Ministry of Education, University and Research
- Associated investigator of Milan Research Unit in the 2015 Research Project “Advanced mechanical modeling of new materials and structures for the solution of 2020 Horizon challenges” (5/2/17-5/2/20) financed by the Italian Ministry of Education, University and Research
- Co-organizer of the 10<sup>th</sup> International Masonry Conference (Milan, 9-11/7/18)

*Versione italiana:*

### Carriera accademica

- Nato a Milano il 23 Dicembre 1959
- Giugno 1984: laurea con lode in Ingegneria Civile, sezione Edile, indirizzo Strutturistico, presso il Politecnico di Milano
- Ottobre 1989: conseguimento del titolo di Dottore di Ricerca in Ingegneria delle Strutture presso il Politecnico di Milano
- Ottobre 1989: vincitore del premio istituito in memoria di R. Baldacci e M. Capurso quale co-autore del miglior articolo in tema di Meccanica Strutturale
- Gennaio 1990-Ottobre 1992: Ricercatore Universitario di ruolo presso la Facoltà di Ingegneria del Politecnico di Milano (gruppo di discipline no. 132)
- Novembre 1992-Febbraio 2001: Professore Universitario di II fascia per il SSD H071 (Scienza delle Costruzioni) presso la Facoltà di Ingegneria dell'Università di Parma (1/11/92-31/10/94), quindi presso la Facoltà di Ingegneria del Politecnico di Milano (da Giugno 1997 presso il campus di Lecco)
- Settembre 1998-Agosto 2001: *Professeur chargé de cours* presso l'Ecole Polytechnique di Parigi/Palaiseau
- da Marzo 2001: Professore Universitario di I fascia per il SSD ICAR/08 (Scienza delle Costruzioni) prima presso la Facoltà di Ingegneria Civile (campus di Lecco) e poi presso la Facoltà/Scuola di Ingegneria Civile, Ambientale e Territoriale (campus Leonardo) del Politecnico di Milano

### Incarichi accademici

- dal 1995 al 2013: membro del Collegio dei Docenti del Dottorato di Ricerca in Ingegneria delle Strutture (poi Ingegneria Strutturale, Sismica e Geotecnica), Politecnico di Milano
- dal 2008 al 2010: membro del Collegio dei Docenti del Dottorato di Ricerca in Architettura, Urbanistica e Conservazione dei luoghi dell'abitare e del paesaggio, Politecnico di Milano
- Periodi Novembre 1996-Ottobre 1999, Novembre 2002-Novembre 2005, Gennaio 2009-Dicembre 2012: Membro della Giunta del Dipartimento di Ingegneria Strutturale del Politecnico di Milano
- Bienni accademici 2001/03 e 2003/05: membro eletto della Giunta della Facoltà di Ingegneria Civile, Ambientale e Territoriale del Politecnico di Milano
- Febbraio 2009-Dicembre 2010: vice-preside della Facoltà di Ingegneria Civile, Ambientale e Territoriale del Politecnico di Milano
- Gennaio 2011-Dicembre 2017: presidente del Corso di Studi in Ingegneria Civile (sede di Milano)
- Da Febbraio 2019: Preside della Facoltà di Ingegneria Civile, Ambientale e Territoriale del Politecnico di Milano

### Attività didattica

- Dal 1992, titolare di corsi di Scienza delle Costruzioni (CS in Ing. Civile, Gestionale, Edile, Meccanica, Politecnico di Milano; DU in Ing. delle Infrastrutture, Università di Parma), Meccanica dei Solidi (CS in Ing. Energetica e DU in Ing. Meccanica, Politecnico di Milano), Calcolo automatico delle strutture (CS in Ing. Civile, Università di Parma), Scienza delle Costruzioni II (CS in Ing. Civile, Politecnico di Milano), Assessment of Historical Buildings (CS in Ing. Civile, Politecnico di Milano) all'interno di Corsi di Laurea (VO e NO triennale), Laurea Magistrale e Diploma Universitario
- Nel 2005: titolare del corso "Mechanics of Composite Materials" nell'ambito del corso di

dottorato in Ingegneria Strutturale, Politecnico di Milano

- Autore o co-autore di tre libri di testo

#### Attività scientifica

- Autore o co-autore di circa 150 pubblicazioni su riviste scientifiche internazionali, atti di congressi scientifici nazionali e internazionali, libri
- h-index: 18, no. totale di citazioni: 804 (fonte: Scopus); soddisfa valori soglia per Commissari ASN 2018, macrosettore 08/B2
- Revisore per diverse riviste scientifiche internazionali (Comput. Struct., Constr. Build. Mat., Eur. J. Mech. A/Solids, Int. J. Solids Struct., Meccanica, etc.)
- Principali campi di ricerca: meccanica dei materiali compositi e anisotropi, ottimizzazione strutturale, studio e modellazione dei fenomeni danno e *creep* nel calcestruzzo e nelle murature
- Responsabile scientifico dell'UR di Milano del Progetto MIUR 2004 "Problemi e modelli microstrutturali: applicazioni in ingegneria strutturale e civile" (30/11/04-30/11/06)
- Responsabile scientifico dell'UR di Milano del PRIN 2015 "Advanced mechanical modeling of new materials and structures for the solution of 2020 Horizon challenges " (5/2/17-5/2/20)
- Co-organizzatore della 10<sup>th</sup> International Masonry Conference (Milano, 9-11/7/18)

## LIST OF PUBLICATIONS – ELENCO DELLE PUBBLICAZIONI

### a) PhD Thesis/Tesi di dottorato/

Taliercio A. “Studio del comportamento elastico e a rottura dei materiali compositi a fibre e di elementi strutturali in composito”, Tesi di Dottorato in Ingegneria delle Strutture, 2° ciclo, Politecnico di Milano, Febbraio 1989.

### b) Papers published in international journals/Pubblicazioni su riviste internazionali

Sacchi Landriani G., Taliercio A. “Numerical analysis of the flat-jack test on masonry walls”, J. Méc. Th. Appl., vol. 5, pp. 313-339, 1986.

Sacchi Landriani G., Taliercio A. “A note on failure conditions for layered materials”, Meccanica, vol. 22, pp. 97-102, 1987.

Rovati M., Taliercio A. “On the adjoint constitutive law in nonlinear elastic optimal design”, Meccanica, vol. 22, pp. 150-156, 1987.

Taliercio A., Sacchi Landriani G. “A failure condition for layered rock”, Int. J. Rock Mech. Min. Sci., vol. 25, pp. 299-305, 1988.

de Buhan P., Taliercio A. “Critère de résistance macroscopique pour les matériaux composites à fibres”, C.R. Acad. Sci., t. 307, Série II, pp. 227-232, Paris, 1988.

de Buhan P., Taliercio A. “A homogenization approach to the yield strength of composite materials”, Eur. J. Mech./A Solids, vol. 10, pp. 129-154, 1991.

Cividini A., Taliercio A., Sacchi Landriani G., Bellotti R., Ferrara G., Rossi P. “An apparatus for cyclic triaxial tests on cylindrical concrete specimens”, Materials & Structures, vol. 25, pp. 490-498, 1992.

Taliercio A. “Lower and upper bounds to the macroscopic strength domain of a fiber reinforced composite material”, Int. J. Plasticity, vol. 8, pp. 741-762, 1992.

Taliercio A., Gobbi E. “Experimental investigation on the triaxial fatigue behaviour of plain concrete”, Mag. Concr. Res., vol. 48, n. 176, pp. 157-172, 1996.

Papa E., Taliercio A. “Anisotropic damage model for the multiaxial static and fatigue behaviour of plain concrete”, Engng Frac. Mech., vol. 55, n. 2, pp. 163-179, 1996.

Taliercio A., Gobbi E. “Effect of elevated triaxial cyclic and constant loads on the mechanical properties of plain concrete”, Mag. Concr. Res., vol. 49, n. 181, pp. 353-365, 1997.

Papa E., Taliercio A., Gobbi E. “Triaxial creep behaviour of plain concrete at high stresses: a survey of theoretical models”, Materials & Structures, vol. 31, pp. 487-493, 1998.

Pandolfi A., Taliercio A. “Bounding surface models applied to fatigue of plain concrete”, J. Engng. Mech., ASCE, vol. 124, n. 5, 1998, pp. 556-564.

Taliercio A., Gobbi E. "Fatigue life and change in mechanical properties of plain concrete under triaxial deviatoric cyclic stresses", *Mag. Concr. Res.*, vol. 50, n. 3, pp. 247-255, 1998.

Carvelli V., Maier G., Taliercio A. "Shakedown analysis of periodic heterogeneous materials by a kinematic approach", *Strojnícky Casopis/Mechanical Engineering*, vol. 50, n. 4, pp. 229-240, 1999.

Taliercio A., Sagramoso P. "Uniaxial strength of polymeric-matrix fibrous composites predicted through a homogenization approach", *Int. J. Solids Structures*, vol. 32, n. 14, pp. 2095-2123, 1995.

Carvelli V., Taliercio A. "A micromechanical model for the analysis of unidirectional elastoplastic composites subjected to 3D stresses", *Mechanics Research Communications*, vol. 26, n. 5, pp. 547-553, 1999.

Taliercio A., Berra M., Pandolfi A. "Effect of high-intensity sustained triaxial stresses on the mechanical properties of plain concrete", *Mag. Concr. Res.*, vol. 51, n. 6, pp. 437-447, 1999.

Carvelli V., Maier G., Taliercio A. "Kinematic limit analysis of periodic heterogeneous media", *Computer Modeling in Engineering and Sciences*, vol. 1, n. 2, pp. 19-30, 2000.

Rovati M., Taliercio A. "On stationarity of strain energy density for some classes of anisotropic solids", *Int. J. Solids Structures*, vol. 40, n. 22, pp. 6043-6075, 2003.

Papa E., Taliercio A. "A visco-damage model for brittle materials under monotonic and sustained stresses", *Int. J. for Numerical and Analytical Methods in Geomechanics*, vol. 29, n. 3, pp. 287-310, 2005.

Taliercio A. "Generalized plane strain finite element model for the analysis of elastoplastic composites", *Int. J. Solids Structures*, vol. 42, n. 8, pp. 2361-2379, 2005.

Anzani A., Binda L., Ramalho M.A., Taliercio A. "Historical multi-leaf masonry walls: experimental and numerical research", *Masonry International*, Vol. 18, No. 3, pp. 101-114, 2005.

Taliercio A., Binda L. "On the reliability of linear elastic analyses of historical masonry buildings: a case study", *J. of Building Appraisal*, Vol. 2, No. 4, pp. 301-312, 2007.

Taliercio A., Binda L. "The Basilica of San Vitale in Ravenna: investigation on the current structural faults and their mid-term evolution", *Journal of Cultural Heritage*, Vol. 8, No. 2, pp. 99-118, 2007.

Taliercio A. "Macroscopic strength estimates for metal matrix composites embedding a ductile interphase", *Int. J. Solids Structures*, Vol. 44, No. 22-23, pp. 7213-7238, 2007.

Ramalho M.A., Taliercio A., Anzani A., Binda L., Papa E. "A numerical model for the description of the nonlinear behaviour of multi-leaf masonry walls", *Adv. Engng. Software*, Vol. 39, No. 4, pp. 249-257, 2008.

Binda L., Condoleo P., Taliercio A. "Restoration of Hindu temples in Mỹ Sơn, Viet Nam: experimental investigation, modelling and proposal for intervention", *J. Struct. Eng., SERC*, Vol. 35, No. 6, pp. 437-442, 2009.

Taliercio A., Veber D. "Some problems of linear elasticity for cylinders in micropolar orthotropic

- material”, *Int. J. Solids Structures*, Vol. 49, No. 22-23, pp. 3948-3963, 2009.
- Taliercio A. “Torsion of micropolar hollow cylinders”, *Mech. Res. Comm.*, Vol. 37, No. 4, pp. 406-411, 2010.
- Veber D., Taliercio A. “Topology optimization of three-dimensional non-centrosymmetric micropolar bodies”, *Struct. Multidisc. Optim.*, Vol. 45, No. 4, pp. 575-587, 2012. VQR
- Bruggi M., Taliercio A. “Maximization of the fundamental eigenfrequency of micro-polar solids through topology optimization”, *Struct. Multidisc. Optim.* Vol. 46, No. 4, pp. 549-560, 2012. VQR
- Casolo S., Milani G., Sanjust A., Taliercio A. “Maniace Castle in Syracuse, Italy: comparison between present structural situation and hypothetical original configuration by means of full 3D FE models”, *The Open Civil Engineering Journal*, Vol. 6, Suppl 1-M6, pp. 173-187, 2012.
- Bruggi M., Taliercio A. “Topology optimization of fiber-reinforcement retrofitting existing structures”, *Int. J. Solids Struct.*, Vol. 50, no. 1, pp. 121-136, 2013. VQR
- Bruggi M., Milani G., Taliercio A. “Design of the optimal fiber-reinforcement for masonry structures via topology optimization”, *Int. J. Solids Struct.*, Vol. 50, no. 13, pp. 2087-2106, 2013.
- Taliercio A. “Numerical prediction and analysis of the behavior of brick masonry under sustained loads”, *Masonry International*, Vol. 26, no. 1, pp. 17-26, 2013.
- Bruggi M., Taliercio A. “Design of masonry blocks with enhanced thermomechanical performances by topology optimization”, *Construction & Building Materials*, Vol. 48, pp. 424-433, 2013.
- Bruggi M., Milani G., Taliercio A. “Design of the optimal fiber reinforcement for masonry structures via topology optimization”, *Wiadomości Konserwatorskie - Journal of Heritage Conservation*, no. 34, pp. 23-27, 2013.
- Bruggi M., Milani G., Taliercio A. “Simple topology optimization strategy for the FRP reinforcement of masonry walls in two-way bending”, *Computers & Structures*, Vol. 138, pp. 86-101, 2014.
- Taliercio A. “Closed-form expressions for the macroscopic elastic and creep coefficients of brick masonry”, *Int. J. Solids Struct.*, Vol. 51, no. 17, pp. 2949-2963, 2014.
- Milani G., Taliercio A. “In-plane failure surfaces for masonry with joints of finite thickness estimated by a Method of Cells-type approach”, *Computers & Structures*, Vol. 150, pp. 34-51, 2015.
- Bruggi M., Taliercio A. “Optimal strengthening of concrete plates with unidirectional fiber-reinforcing layers”, *Int. J. Solids Struct.*, Vol. 67-68, pp. 311-325, 2015.
- Bruggi M., Taliercio A. “Analysis of no-tension structures under monotonic loading through an energy-based method”, *Computers & Structures*, Vol. 159, pp. 14-25, 2015.
- Taliercio A., Veber D. “Torsion of elastic anisotropic micropolar cylindrical bars”, *Eur. J. Mech. A/Solids*, Vol. 55, pp. 45-56, 2016.

Milani G., Taliercio A. "Limit analysis of transversally loaded masonry walls using an innovative macroscopic strength criterion", *Int. J. Solids Struct.*, Vol. 81, pp. 274-293, 2016.

Taliercio A. "Closed-form expressions for the macroscopic flexural rigidity coefficients of periodic brickwork", *Mechanics Research Communication*, Vol. 72, pp. 24-32, 2016.

Soto Izquierdo I., Soto Izquierdo O., Ramalho M.A., Taliercio A. "The use of Sisal fibers in hollow concrete blocks for structural applications: testing and modeling", *Construction & Building Materials*, Vol. 151, 98-112, 2017.

Bruggi M., Taliercio A. "Optimal strengthening of no-tension structures with externally bonded reinforcing layers or ties", *Struct. Multidisc. Optim.* Vol. 55, No. 5, pp. 1831-1846, 2017.

Condoleo P., Gobbo A., Taliercio A. "A hybrid masonry and steel mirror-type vault with lunettes: survey and structural analysis", *Int. J. Arch. Herit.*, 2018, DOI: 10.1080/15583058.2018.1552997.

#### c) Papers published in national journals/Pubblicazioni su riviste nazionali

Pandolfi A., Taliercio A. "Sul comportamento fino a collasso di elementi strutturali ad arco con limitata resistenza a trazione: analisi numeriche e confronti teorico-sperimentali", *Studi e Ricerche*, vol. 6, pp. 85-118, Ed. Italcementi (Bergamo), 1984.

Sacchi Landriani G., Taliercio A. "Analisi numerica della prova ai martinetti piatti su pareti in muratura", *Atti e Rassegna Tecnica Società Ingegneri e Architetti in Torino, nuova serie - A40*, n. 5-6, pp. 166-176, 1986.

Poggi C., Taliercio A., Sacchi Landriani G. "La Torre Civica di Pavia: simulazioni numeriche per la determinazione delle sollecitazioni e delle caratteristiche meccaniche della muratura", *TeMa - Tempo, Materia, Architettura*, n. 3, pp. 46-55, 1993.

#### d) Chapters of books with international diffusion/Contributi in libri a diffusione internazionale

Taliercio A. "Application of homogenization theory and limit analysis to the evaluation of the macroscopic strength properties of fiber reinforced composite materials", in 'Evaluation of global bearing capacities of structures', G. Sacchi Landriani & J. Salençon (Eds.), Springer-Verlag, Wien, pp. 91-120, 1993.

Papa E., Taliercio A. "Anisotropic damage model for the triaxial creep behaviour of concrete", in 'Damage Mechanics in Engineering Materials', G.Z. Voyiadjis, J.-W. Wu, J.-L. Chaboche (Eds.), Elsevier Sci. B.V., pp. 337-350, 1998.

Maier G., Carvelli V., Taliercio A. "Limit and shakedown analysis of periodic heterogeneous media", in 'Handbook of Materials Behavior Models', J. Lemaitre (Ed.), Academic Press, Sec. 10.8, pp. 1025-1036, 2001.

Taliercio A., Papa E. "Modelling of the long term behaviour of historical masonry towers", in 'Learning from failure: long term behaviour of heavy masonry structures', L. Binda (Ed.), WIT Press, Southampton (UK), ISBN: 978-1-84564-057-6, Series: Advances in Architecture, Vol. 23, Chapter 7 (pp. 153-173), 2007.



Taliercio A., “Numerical models to predict the creep behaviour of brickwork”, in ‘Heritage Masonry: Materials and Structures’, S. Syngellakis (Ed.), WIT Press, Southampton (UK), 2013, pp. 169-180, ISBN 978-1-84564-839-8.

Bruggi M., Taliercio A. “Topology optimization for the development of eco-efficient masonry units”, in ‘Eco-efficient Masonry Bricks and Blocks’, F. Pacheco-Torgal, P.B. Lourenço, J.A. Labrincha, S. Kumar & P. Chindaprasirt (Eds.), Woodhead Pub., Cambridge (UK), Chap. 19, pp. 425 - 445, 2015, ISBN 978-1-782423-05-8.

Ramalho M.A., Taliercio A. “Concrete block masonry prisms under compression: testing and modelling”, in ‘Computer Analysis and Design of Masonry Structures’, Chapter 6, John W. Bull (Ed.), Saxe-Coburg Publications, Stirling, Scotland (UK), pp. 159-181, 2017, ISBN 978-1-874672-44-9.

#### e) Chapters of books with national diffusion/Contributi in libri a diffusione nazionale

Salençon J., Sacchi Landriani G., de Buhan P., Taliercio A. “Criteri di rottura macroscopici per materiali stratificati”, Volume commemorativo in onore del prof. Giulio Ceradini, Dipartimento di Ingegneria Strutturale e Geotecnica, Università di-Roma ‘La Sapienza’, pp. 629-640, 1988.

Anzani A., Binda L., Papa E., Taliercio A. “Modellazione dell’evoluzione temporale del danneggiamento nelle antiche strutture murarie massicce”, in ‘Il Progetto di Conservazione: linee metodologiche per le analisi preliminari, l’intervento, il controllo di efficacia’, S. Pesenti (Ed.), Alinea, par. 2.5, pp. 151-163, 2001.

Papa E., Taliercio A. “Modellazione del danneggiamento nelle murature in presenza di carichi non proporzionali”, Atti Workshop su ‘Danneggiamento, conservazione e manutenzione di strutture murarie e lignee: diagnosi e modellazione con riferimento alle tipologie costruttive ed edilizie’, 16-17 Gennaio 2003, DIS – Politecnico di Milano, pp. 81-87, L. Binda (Ed.), Eliocenter, Milano.

Taliercio A., Ramalho M.A., Papa E. “Un modello non lineare per la muratura a più paramenti”, Atti del Workshop ‘Dalla conoscenza e dalla caratterizzazione dei materiali e degli elementi dell’edilizia storica in muratura ai provvedimenti compatibili di consolidamento’, DIS, Politecnico di Milano, 16-17 Dicembre, 2004, pp. 53-64 (CD-Rom).

#### f) Proceedings of international conferences/Atti di convegni internazionali

Sacchi Landriani G., Taliercio A. “Numerical analysis of the flat-jack test on masonry walls”, Int. Rep. of the 1st joint USA-Italy workshop on ‘Evaluation and retrofit of masonry structures’, L. Binda & J. Noland (Eds.), pp. 167-174, Milano, 1986.

Sacchi Landriani G., Taliercio A. “A failure condition for layered frictional materials”, Int. Rep. of the 1st joint USA-Italy workshop on ‘Evaluation and retrofit of masonry structures’, L. Binda & J. Noland (Eds.), pp. 53-57, Milano, 1986.

Sacchi Landriani G., Taliercio A. “Strength criteria for fiber reinforced composite materials”, in ‘Composite Material Technology’, D. Hui & T.J. Kozik (Eds.), pp. 49-55, ASME, New York, 1989.

Rovati M., Taliercio A., Cinquini C. "On maximum stiffness of orthotropic shells", in 'Optimization of structural systems and industrial applications', S. Hernandez & C.A. Brebbia (Eds.), Computational Mechanics Publications (Southampton-Boston) & Elsevier Appl. Sci. (London-New York), pp. 597-604, 1991.

Poggi C., Taliercio A., Capsoni A. "Fiber orientation effects on the buckling behaviour of imperfect composite cylinders", in 'Buckling of shell structures on land, in the sea and in the air', J.F. Jullien (Ed.), Elsevier Pub. Ltd., London, pp. 114-123, 1991.

de Buhan P., Salençon J., Taliercio A. "Lower and upper bound estimates for the macroscopic strength criterion of fiber composite materials", in 'Inelastic deformation of composite materials', G.J. Dvorak (Ed.), Springer-Verlag, New York, pp. 563-580, 1991.

Rovati M., Taliercio A. "Optimal orientation of the symmetry axes of orthotropic 3-D materials", in 'Engineering optimization in design processes', H.A. Eschenauer, C. Mattheck, N. Olhoff (Eds.), Lecture Notes in Engineering, Springer-Verlag, Heidelberg (D), pp. 127-154, 1991.

Taliercio A., Rovati M., Sacchi Landriani G. "Formulation of a macroscopic strength criterion for tridirectional fiber composites", in 'Mechanics of composite materials at elevated and cryogenic temperatures', S.N. Singhal, W.F. Jones, C.T. Herakovich and T. Cruse (Eds.), ASME, New York, Book no. G00618, pp. 171-180, 1991.

Papa E., Taliercio A. "A damage model for triaxial fatigue of concrete: theoretical formulation and parametric investigation", Proc. Int. Seminar on Micromechanics of Materials "MECAMAT 93", Moret-sur-Loing (F), 6-8/7/1993, pp. 543-554.

Rovati M., Taliercio A. "Bounds on the elastic strain energy density in 3-D bodies with material symmetries", Proc. 'Structural optimization 93', The World Congress on Optimal Design of Structural Systems, Rio de Janeiro, 2-6/8/1993, J. Herskovits (Ed.), pp. 353-360.

Sacchi Landriani G., Taliercio A. "On the optimal design of bodies with material symmetries", in 'Advances in Design Automation', B.J. Gilmore, D.A. Höltzl, D. Dutta, H.A. Eschenauer (Eds.), ASME, pp. 225-235, 1994.

Sacchi Landriani G., Rovati M., Taliercio A. "Material anisotropy and work strain characterized by stationary values of strain energy density function", in 'Advanced Technology for Design and Fabrication of Composite Materials', G.C. Sih, A. Carpinteri and G. Surace (Eds.), Kluwer Acad. Pub., pp. 85-100, 1995.

Taliercio A. "Homogenization of elastoplastic composites", Proc. 4th Int. Conf. on Composites Engineering - ICCE/4, Kona Big Island, USA, 6-11/7/1997, pp. 971-972.

Frassine R., Taliercio A. "Viscoelastic behaviour of polymer-matrix composites: numerical modeling and experimental validation", Proc. 4th Int. Conf. on Composites Engineering - ICCE/4, Kona Big Island, USA, 6-11/7/1997, pp. 331-332.

Carvelli V., Maier G., Taliercio A. "Limit analysis of periodic composites by a kinematic approach", Proc. "ECCM-8 European Conference on Composite Materials - Science, Technology and Applications", Napoli, 3-6/6/1998, vol. 4, pp. 389-396.

Taliercio A. "Numerical analysis of the transverse mechanical properties of polymeric composites",

Proc. 3rd Int. Conf. on Composites Engineering - ICCE/3, New Orleans, 21-26/7/1996, pp. 825-826.

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