

Curriculum Vitae

INFORMAZIONI PERSONALI

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AMBITI DI RICERCA

Curriculum Vitae et Studiorum

di

Mario Di Paola

Personal Details

- Born in Genova (Italy) the 20.02.1947.
- Office address: Dipartimento di Ingegneria Strutturale & Geotecnica,
Viale delle Scienze, I-90128, Palermo, Italy.
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Education

- *Secondary school:* Scientific Maturity (Italian: Diploma di Maturità Scientifica). Palermo, July 1965.
- *Sc. M.:* Civil Engineering (Italian: Laurea in Ingegneria Civile, Sezione Strutture). University of Palermo, 12 July 1970.

Final grade 110/110.

Academic Activity

- Researcher at the University of Palermo, teaching Mechanics of Structures (Italian: Scienza delle Costruzioni) since November 1970.
- Associate professor at the University of Palermo, teaching Dynamics of Structures (Italian: Dinamica delle Strutture), November 1975.
- Full professor at the university of Palermo, 1986-present.
- Member of the College of the Engineering Faculty Dean, University of Palermo, 2006- present.
- Head of the Dipartimento di Ingegneria Strutturale & Geotecnica of Palermo, 1989- 1992; 1999-2001.
- President of the aerospace engineering school, University of Palermo, 2004-2006.
- Head of the Ph.D. scientific committee in "Structural Engineering", Palermo 1998-2004.

Teaching Activities

- Theory of Elasticity-Strength of Materials (Italian Scienza delle Costruzioni) at the Università Nazionale Soma, Mogadiscio (1978).
- Theory of Elasticity-Strength of Materials (Italian Scienza delle Costruzioni) at the University of Palermo, 1986.
- Theory of Elasticity-Strength of Materials (Italian Scienza delle Costruzioni) at the University of Messina, 1993.
- Structural Safety at the University of Messina, 1994, 1995.

- Seismic Engineering at the University of Messina, 1996, 1997.
- Theory of Elasticity-Strength of Materials (Italian Scienza delle Costruzioni), University of Palermo, 1999-present.
- Structural Vibrations (Italian Dinamica delle strutture), University of Palermo, 1973-2008.
- Structural Safety, University of Palermo, 2006-2008.

Visiting Professor

- Visiting Professor of Mechanics Engineering and Stochastic Mechanics, Florida Atlantic University, Florida, 1992.
- Visiting Professor of Applied Stochastic Mechanics, Hanoi, 1993.

Keynote Lectures

- Keynote Lecturer at the II Euro-African Conference on Wind Engineering, Genova, (Italy), 1997.
- Keynote Lecturer at the Fifth European Conference on Structural Dynamics Eurodyn02, Munich 2-5 september, 2002.
- Keynote Lecturer at the International Conference on Seismic Engineering MERCEA 2008, Reggio Calabria, 8-11 Luglio 2008.

Awards

- IASSAR: The international association for structural mechanics and reliability, 2005.

Tutorial Activity

Advisor of many student on Sc. M. theses (about 250).

Tutor of many Ph.D. students (15).

Courses, Seminars

Courses for Ph.D. students

- Stochastic Dynamics at the University of Bologna, Italy, 1988.
- Stochastic Dynamics at the University of Neaples, Italy, 1989.
- Ito Stochastic Differential Calculus, University of Palermo, 1992.
- Stochastic Differential Calculus, University of Hanoi, 1993.
- Stochastic Differential Equations in Civil Engineering, 3RD Summer School of Warredoc, Perugia, 1994.
- Stochastic dynamics, University of Bologna, Italy, 2001.

CISM (International Center of Mechanics, Udine) Courses

- Stochastic Differential Calculus, 1994.
- Stochastic Differential Calculus, 1997.
- Probability, fuzzyness and anti-optimization, 1999.

Seminars

- Dynamics of structures under earthquakes, Seminar for Engineers Caltanissetta, 1982.
- Seismic Motion and Stochastic Mechanics, Seminar for Engineers, Palermo, 1984.

- Stochastic Dynamics on Non Linear Systems Under Poisson Pulses, Florida Atlantic University, Florida, 1992.
- Ito and Stratonovich Integrals for Single Impulse, Wayne State University, 1994.
- Repairing of Masonry Structures, Seminar for Architects, Palermo, 1995.
- Dynamics of Bridges Under Moving Loads, University of Messina, 1997.
- Dynamics of Non Linear Systems Under Parametric Impulses, Palermo, 1998.
 - Structural Dynamics, Seminar for Engineers, University of Messina, 1998.
 - Campi aleatori (Random fields), University of Bologna, 2002.
- Strutture continue con incertezza dei parametri (Continuous Structures with uncertain parameters), University of Bologna, 2002.
- Travature reticolari a parametric incerti (Uncertain random trusses), University of Bologna, 2002.
- Poisson Filtered Processes in Description and Analysis of Uncertain Continuous Structures Warsaw, 2004.
 - Structures with uncertain parameters (Virtual Distortion Approach), Warsaw, 2004
- Il calcolo frazionario per lo studio della meccanica del continuo non locale (Fractional Calculus in the study of non-local mechanics), University of Turin (Italy), 2007.
- Fractional Calculus in Stochastic Dynamics, Technical University of Wien, 02-04-2008
- Analysis of Non-Local Continua by Fractional Calculus, University of Trento 03/13/2008.
- Non-local Mechanics via Fractional Calculus, University of Genova, 05/08/2008.
- Physically-Based Approach to the Mechanics of Non-Local Theory, University of Rome, 2008.
- Engineering Applications of Fractional Calculus, University of Perugia, 2009
- Physicall-based approach to non-local mechanics, University of Perugia, 2009
- Innovative Techniques for Response Mitigation of Structures under Seismic and Wind Actions, University of Florence, 2009.
- Engineering Applications of Fractional Calculus, University of Reggio Calabria, 2009.
- Fractals and Fractional Calculus, Application to non-local continuum, University of Torino, 2009

- Fractals and Fractional Calculus, Waves propagation in non-local continuum, University of Torino, 2009
- Fractals and fractional calculus, Università politecnica delle Marche, 2010
- The fractal approach to non-local mechanics, Università politecnica delle Marche, 2010
- Fractals and fractional calculus, University of Pisa, 2010
- The fractal approach to non-local mechanics, University of Pisa, 2010
- Fractals and fractional calculus, University of Bologna, 2010
- The fractal approach to non-local mechanics, University of Bologna, 2010

Editorial Activity

Editorial board on:

- International Journal of Non Linear Mechanics
- Probabilistic Engineering Mechanics.

Reviewer of the following journal

- Meccanica
- Journal of Applied Mechanics
- Probabilistic Engineering Mechanics
- International Journal of Non Linear Mechanics

- Journal of Sound and Vibration
- International Journal of Engineering Science.
- Physica A

Membership

- AIMETA (Italian Association of Theoretical and Applied Mechanics), since 1986.
- President of the Italian Group of Stochastic Mechanics (AIMETA), 1994-1997.
- National Association of Wind Engineering ANIV, Member of Council ANIV, 1995-present
- Member of the directive committee of the Italian Association of Theoretical and Applied Mechanics, AIMETA 2002-present.

Publications in International Journals

1. Di Paola, M., Mallandrino, G., 1981, Dynamic response of a pile subjected to random wave motion, *Permanent International Association of Navigation Congress*, Vol. III, 37-49.
2. Di Paola, M., Muscolino, G., 1984, Effects of epicentral direction on seismic response of asymmetric buildings, *Earthquake Engineering and Structural Dynamics*, Vol. 12, 95-109.
3. Di Paola, M., 1984, Method for the analysis of vibrating systems subjected to random excitation, *Meccanica*, Vol. 19, n. 1, 61-67.
4. Di Paola, M., Ioppolo, M., Muscolino, G., 1984, Stochastic seismic analysis of multidegree of freedom systems, *Engineering Structures*, Vol. 1, 113-118.

5. Di Paola, M., Muscolino, G., 1985, Response maxima of a SDOF system under seismic action, *ASCE, American Society of Civil Engineering*, Vol. 111, 2033-2046.
6. Di Paola, M., Muscolino, G., 1986, On the convergent part of high spectral moments of stationary structural response, *Journal of Sound and Vibration*, Vol. 110, n. 2, 233-246.
7. Di Paola, M., 1986, Transient spectral moments of linear systems, *SM Archives*, Vol. 2, 34-52.
8. Di Paola, M., Muscolino, G., 1988, Analytic evaluation of spectral moment, *Journal of Sound and Vibration*, Vol. 124, n. 3, 479-488.
9. Borino, G., Di Paola, M., Muscolino, G., 1988, Non stationary spectral moments of base excited MDOF systems, *Earthquake Engineering and Structural Dynamics*, Vol. 16, 745-756.
10. Di Paola, M., Petrucci, G., 1990, Spectral moments and pre-envelope covariances non separable processes, *Journal of Applied Mechanics, ASME*, Vol. 57, 218-225.
11. Di Paola, M., Falsone, G., Muscolino, G., 1990, Random analysis of geometrically nonlinear FE modelled structures under seismic actions, *Structural Safety*, Vol. 8, 209-222.
12. Di Paola, M., Muscolino, G., 1990, Differential moment equations of geometrically nonlinear FE modelled structures with geometric nonlinearities, *International Journal of Nonlinear Mechanics*, Vol. 25, n. 4, 363-373.
13. Di Paola, M., Falsone, G., Muscolino, G., Ricciardi, G., 1990, Modal analysis for random response of MDOF systems, *Stochastic Structural Dynamics, I*, (Eds. Y.K. Lin and J. Elishakoff), Springer Verlag, 63-81.
14. Di Paola, M., Falsone, G., Pirrotta, A., 1992, Stochastic response analysis of nonlinear systems under Gaussian inputs, *Probabilistic Engineering Mechanics*, Vol. 7, n. 1, 15-21.
15. Di Paola, M., La Mendola, L., 1992, Dynamics of structures under seismic input motion, *European Earthquake Engineering*, Vol. 2, 34-40.
16. Di Paola, M., 1993, Representation of strongly stationary stochastic processes, *Journal of Applied Mechanics, ASME*, Vol. 60, n. 3, 689-694.
17. Di Paola, M., Falsone, G., 1993, Stochastic dynamics of nonlinear systems driven by non normal delta correlated processes, *Journal of Applied Mechanics, ASME*, Vol. 60, 141-148.
18. Di Paola, M., Falsone, G., 1993, Ito and Stratonovich integrals for delta correlated processes, *Probabilistic Engineering Mechanics*, Vol. 8, 192-208.
19. Di Paola, M., Falsone, G., 1994, Nonlinear oscillators under parametric and external Poisson pulses, *Journal of Nonlinear Dynamics*, Vol. 5, 337-352.
20. Di Paola, M., Falsone, G., 1994, Stochastic dynamics of MDOF structural systems under non normal filtered inputs, *Probabilistic Engineering Mechanics*, Vol. 9, 265-272.
21. Di Paola, M., Ricciardi, G., Vasta, M., 1995, A method for the probabilistic analysis of nonlinear systems, *Probabilistic Engineering Mechanics*, Vol. 10, 1-10.

22. Caddemi, S., Di Paola, M., 1996, Ideal and physical white noise in the stochastic analysis, *International Journal of Nonlinear Mechanics*, Vol. 31, 581-590.
23. Di Paola, M., Pisano, A., 1996, Multivariate stochastic wave generation, *Applied Ocean Research*, Vol. 18, 361-365.
24. Di Paola, M., Elishakoff, J., 1996, Nonstationary response of linear systems under stochastic Gaussian and nonGaussian excitation: A brief overview of recent results, *Chaos Solitons and Fractals*, Vol. 7, n. 7, 961-971.
25. Di Paola, M., Falsone, G., 1997, Multiple times response statistics of MDOF linear systems excited by linearly parametric white noise, *Probabilistic Engineering Mechanics*, 179-188.
26. Di Paola, M., Falsone, G., 1997, Higher order statistics of the response of MDOF linear systems excited by linearly parametric white noises and external excitation, *Probabilistic Engineering Mechanics*, Vol. 12, n. 3, 179-188.
27. Di Paola, M., Falsone, G., 1997, Higher order statistics of the response of MDOF linear systems under polynomials of filtered normal white noises, *Probabilistic Engineering Mechanics*, Vol. 12, n. 3, 189-196.
28. Di Paola, M., Vasta, M., 1997, Stochastic integral differential and differential equations of nonlinear systems excited by parametric Poisson pulses, *International Journal of Nonlinear Mechanics*, Vol. 32, n. 5, 855-862.
29. Caddemi, S., Di Paola, M., 1997, Nonlinear systems response for impulsive parametric input, *Journal of Applied Mechanics, ASME*, Vol. 64, 642-648.
30. Di Paola, M., 1997, Linear systems excited by polynomials of filtered Poisson pulses, *Journal of Applied Mechanics, ASME*, Vol. 64, 712-717.
31. Gullo, I., Di Paola, M., Spanos, P.D., 1998, Spectral approximation for wind induced structural vibration studies, *Meccanica*, Vol. 33, 291-298.
32. Di Paola, M., Falsone, G., 1998, Higher order along wind response statistics of linear SDOF structures including the quadratic term of the fluctuating wind velocity, *Meccanica*, Vol. 33, 279-290.
33. Di Paola, M., 1998, Digital simulation of wind field velocity, *Aerodyns*, 74-76, 91-109.
- Benfratello, S., Di Paola, M., Spanos, P.D., 1998, Stochastic response analysis of MDOF wind-excited structures by means of Volterra series approach, *Journal of Wind Engng. and Ind. Aerodyns*, 74-76, 1135-1145.
- Di Paola M., Pirrotta A., 1999, Non-linear systems under impulsive parametric input, *Int. J. Of Non-Linear Mechanics*, **34**, (5), 843-851.
- M. Di Paola, G. Falsone, 1999, "Higher order statistics of the response of linear systems excited by polynomials of filtered Poisson pulses", *Probabilistic Engineering Mechanics* 14, 55-62.
- Cavaleri, C. and Di Paola, M., 2000, "Statistic moments of the total energy of potential systems and applications to equivalent non-linearization", *Int. J. of Non-Linear Mechanics*, 35, 573-587.
- Di Paola M., Gullo I., Digital Generation of Multivariate Wind Field Processes, published on *Journal of Probabilistic Engineering*, 1999.

Di Paola M., Zingales M., 2000, Digital Simulation of Multivariate Earthquake Ground Motion, *Earthquake Engineering and Structural Dynamics*, 29, 1011-1027.

Petrucci, G., Di Paola, M., Zuccarello, B., 2000, On the characterization of Dynamic properties of Random Processes by Spectral Parameters, *Journal of Applied Mechanics, ASME*, Vol. 67, 519-526.

Di Paola M., Pirrotta A., 2001, "Time delay induced effects on control of linear systems under random excitation" *Probabilistic Engineering Mechanics*, 16, (1), 43-51.

Bilello C., Di Paola M., Pirrotta A., 2002, "Time delay induced effects on control of non-linear systems under random excitation" *Meccanica*, n. 37, 207-220.

Spanos P. D., Di Paola M., Failla G., 2002, "A galerkin approach for power spectrum determination of non-linear oscillator", *Meccanica*, n.37, 51-65.

Di Paola M., Failla G., 2002, "Stochastic Response of Offshore Structures by a new Approach to Statistical Cubicization", *Journal of Offshore Artic Engineering (ASCE)*, 124, 6-13.

Di Paola M., Sofi A., 2002, "Approximate Solutions of the Fokker-Planck-Kolmogorov Equation", *Probabilistic Engineering Mechanics*, 17, 369-384.

Di Paola M., Zingales M., 2003, "Stochastic Seismic Analysis of Dam-Reservoir System" *Earthquake Engineering and Structural Dynamics*, 32, 165-172.

Di Paola M., 2004, "Probabilistic Analysis of Truss Structures with Uncertain Parameters (Virtual Distortion Method Approach)", *Probabilistic Engineering Mechanics*, 19, 321-329.

Di Paola M., Pirrotta A., Zingales M., 2004, "Stochastic Dynamics of Linear Elastic Trusses in Presence of Structural Uncertainties" (Virtual Distortion Approach)", *Probabilistic Engineering Mechanics*, 19, 41-51.

Bilello C., Di Paola M., 2004, "An Integral Equation for Damage Identification of Euler-Bernoulli Beams under Static Loads", *Journal of Engineering Mechanics (ASCE)*, 130, 799-804.

Di Paola M., Failla G., 2004, "A Correction Method for Dynamic Analysis of Linear Systems", *Computer and Structures*, 82, 1217-1226.

Bilello C., Di Paola M., Salamone S., 2005, "A correction method for dynamic analysis of linear continuous systems", *Computers and Structures*, 83, 662-670.

Spanos P.D., Sofi A., Di Paola M., 2007, "Non-stationary response envelope probabilit  densities of non-linear oscillators", *Journal of Applied Mechanics Transactions of the ASME*, 74 (2), 315-324.

M. Di Paola, A. Pirrotta, M. Zingales, 2007, "Itô calculus extended to systems driven by a-stable L vy white noises (a novel clip on the tails of L vy motion)", *International Journal of Non-Linear Mechanics*, 42, 1046-1054.

Di Paola M., La Mendola L., Navarra G., 2007, "Stochastic Seismic Analysis of MDOF Structures with Viscous Damper Devices", *Journal of Structural Engineering div. ASCE*, 133, 1475-1478.

M. Di Paola, R. Santoro, 2008, "Non-linear systems under Poisson White Noise handled by Path Integral Solution," *Journal of Vibration and Control*, **14**, 35-49 .

Bilello C., Di Paola M., Salamone S., 2008, "A correction method for the analysis of continuous linear one-dimensional systems under moving loads", *Journal of Sound and Vibration*, **315**, 226-238.

Di Paola, M; Floris, C., 2008, "Iterative closure method for non-linear systems driven by polynomials of Gaussian filtered processes", *Computer and Structures*, **86**, 1285-1296.

Di Paola M., Santoro R., 2008, "Path integral solution for non-linear system enforced by Poisson White Noise", *Probabilistic Engineering Mechanics*, **23**, 164-169.

Di Paola, M; Pirrotta, A; Zingales, M., 2008, "Stochastic analysis of external and parametric dynamical systems under sub-Gaussian Levy white-noise", *Structural Engineering and Mechanics*, **28**, 373-386.

Di Paola, M; Pirrotta, A; Santoro, R, 2008, "Line element-less method (LEM) for beam torsion solution (truly no-mesh method)", *Acta Mechanica*, **195**, 349-364. Di Paola M., Zingales M., 2008, "Stochastic differential calculus for wind-exposed structures with autoregressive continuous (ARC) filters", *Journal of Wind Engineering & Industrial Aerodynamics*, **96**, 2403-2417.

Di Paola M., Zingales M., 2008, "Long-range cohesive interactions of non-local continuum faced by fractional calculus", *International Journal of Solids and Structures*, **45**, 5642-5659.

Caddemi S., Di Paola M., 2008, "The Hu-Washizu variational principle for the identification of imperfections in beams", *International Journal of Numerical Methods in Engineering*, **75**, 1259-1281.

Cottone G., Di Paola M., 2009, "On the use of fractional calculus for the probabilistic characterization of random variables", *Probabilistic Engineering Mechanics*, **24**, 321-330.

Di Paola M., Navarra G., 2009, "Stochastic seismic analysis of MDOF structures with nonlinear viscous dampers", *Structural Control and Health Monitoring*, **16**, 303-318.

Di Paola M., Santoro R., 2009, "Path integral solution handled by Fast Gauss Transform", *Probabilistic Engineering Mechanics*, **24**, 300-311.

Di Paola M., Marino F., Zingales M., 2009, "A generalized model of elastic foundation based on long-range interactions: Integral and fractional model", *International Journal of Solids and Structures*, **46**, 3124-3137.

Di Paola M., Failla G., Zingales M., 2009, "Physically-Based Approach to the Mechanics of Strong Non-Local Linear Elasticity Theory", *Journal of Elasticity*, 1-28.

Di Paola M., Pirrotta A., Zingales M., 2009, Physically based approach to the mechanics of non-local continuum: Variational Principles, *International Journal of Solids and Structures*, in press.

Cottone G., Di Paola M., Zingales M., 2009, Elastic waves propagation in 1D fractional non-local continuum, *Physica E*, doi: 10.1016/j.physe.2009.09.006.

Di Paola M., Failla G., Zingales M., (2010), "The 3D Problem of Isotropic Linear Elasticity Theory with Long-Range Cohesive Interactions", *International Journal of Solids and Structures*, in press.

Cottone G., Di Paola M., Zingales M., (2009), "Elastic Waves Propagation in 1D Fractional non-local continuum" *Physica E*.

Zingales M., Di Paola M., Inzerillo G., (2010), "The Finite Element Method for the Physically-Based Model of non-Local Elastic Continuum", *International Journal for Numerical Methods in Engineering*.

Cottone G., Di Paola M., (2010), "A new representation of power spectral density and correlation function by means of fractional spectral moments", *Probabilistic Engineering Mechanics*, **25**, 348-353.

Cottone G., Di Paola M., Ibrahim R., Pirrotta A., Santoro R., 2010, "Stochastic Ship Roll Motion via Path Integral Method" *International Journal of Naval Architecture and Ocean Engineering* 2, 119-126.

Cottone G., Di Paola M., Santoro R., (2010) "A novel exact representation of stationary colored Gaussian processes (fractional differential approach)", *Journal of Physics A-Mathematical and Theoretical* , **43**, Article Number: 085002.

Cottone G., Di Paola M., Metzler R., (2010), "Fractional calculus approach to the statistical characterization of random variables and vectors", *Physica A-Statistical Mechanics and its Applications*, **389**, 909-920.

Di Paola M. Zingales M., (2011), "The Fractional Differential Calculus for the 3D Mechanically-Based Non-Local Elasticity", *International Journal of Multiscale Computational Engineering* in press

Di Paola M., Sofi A., Zingales M., (2011), "Stochastic Analysis of 1D Heterogeneous Solids with Long-Range Interactions" *International Journal of Multiscale Computational Engineering* in press

Di Paola M., Failla G., Sofi A., Zingales M., (2011), "A Mechanically-Based Approach to Non-Local Nanobeam Theories", *International Journal of Mechanical Sciences* in press

Borino G., Di Paola M., Zingales M., (2011), "A fractional approach to Extended Irreversible Thermodynamics", *European Journal of Physics-Special Topics*, in press

Cottone G. Di Paola M., Butera G., (2011), Stochastic dynamics of nonlinear systems with a fractional power-law nonlinear term: The fractional calculus approach, *Probabilistic Engineering Mechanics*, **26**, 101-108.

Cottone G., Di Paola M., (2011), Fractional Spectral Moments for Digital Simulation of Multivariate Wind Velocity Fields, *Journal of Wind Engineering and Industrial Aerodynamics*, doi. 10.1016/j.jweia.2011.03.006

Publications in National Journals

1. Di Paola, M., 1972, L'instabilità dell'equilibrio elastico in cilindri snelli con vincoli cedevoli elasticamente, *Bollettino dell'Ordine degli Ingegneri della Provincia di Palermo*, n. 5.

2. Di Paola, M., 1973, Sugli archi elastici piani a grande curvatura iniziale, *Accademia di Scienze, Lettere ed Arti di Palermo*, Serie IV, Vol. XXXII.

3. Di Paola, M., 1976, Sulla dinamica di sistemi intelaiati in presenza di smorzamento, *Giornale del Genio Civile*, n. 4.
4. Di Paola, M., Barbaro, G., 1979, Elementi di algebra matriciale, *Bollettino dell'Ordine degli Ingegneri della Provincia di Palermo*, n. 2.
5. Di Paola, M., Barbaro, G., 1979, Dinamica degli edifici multipiano, *Bollettino dell'Ordine degli Ingegneri della Provincia di Palermo*, n. 2.
6. Di Giovanna, G., Di Paola, M., 1980, Variazioni delle sollecitazioni indotte in una struttura in dipendenza della direzione di ingresso del sisma, *Giornale del Genio Civile*, n. 10.
7. Di Paola, M., Poterasu, V.F., Muscolino, G., 1982, Structural parameters identification in the frequency domain, *Rev. Roum. Sci. Tech. Mech. Appl.*, n. 2, 237-245.
8. Celauro C., Di Paola M., Lo Presti D., Marino F., Pirrotta A. 2009, "Modeling of the viscoelastic behavior of paving bitumen using fractional derivatives" *Meccanica dei Materiali e delle Strutture*, I(II), 38-51.
9. Di Paola M., Pirrotta A. 2009, "Fractional calculus application to visco-elastic solid" *Meccanica dei Materiali e delle Strutture*, I(II), 52-62.

Publications in International Proceedings

1. Di Paola, M., 1980, Earthquake response analysis of torsionally coupled multistorey buildings, *VII World Conference on Earthquake Engineering*, Istanbul, Vol. 5, 443-446.
2. D'Arrigo, A., Di Paola, M., 1982, Nonstationary seismic input and response, *VII Conference on Earthquake Engineering*, Athens, Vol. 3, 85-91.
3. Di Paola, M., Ioppolo, M., Lanza, M., 1982, Nonstationary non white seismic input and response, *VII Symposium on Earthquake Engineering*, Roorkee (India), Vol. 1, 191-195.
4. Borino, G., Di Paola, M., Muscolino, G., 1986, Non stationary spectral moments and threshold crossing in earthquake engineering, *Proc. of VIII European Conference on Earthquake Engineering*, Lisbona, Vol. 3, 6.3/9-6.3/16.
5. Di Paola, M., Muscolino, G., 1987, Spectral moments and envelopes for non-stationary non separable processes, *Proc. of 5th International ICASP Conference*, Vancouver, Vol. I, 55-62.
6. Bellomo, M., Di Paola, M., La Mendola, L., Muscolino, G., 1987, On the accuracy of mode superposition analysis of linear systems under stochastic agencies, *Trans. of the 9th International Conference SMIRT*, Lausanne, Vol. M, 473-478.
7. Di Paola, M., La Mendola, L., Zingone, G., 1988, Accuracy of mode superposition methods in the evaluation of asymmetric multistorey buildings, *Proc. of 9th World Conference on Earthquake Engineering*, Tokyo, Vol. 5, 37-42.
8. Di Paola, M., 1988, Moments of nonlinear systems, *Proc. of ASCE Probabilistic Mechanics Conference*, Virginia

Tech. Blacksburg.

9. Di Paola, M., Muscolino, G., 1989, Non Gaussian closures for nonlinear finite element modelled structures, *5th International Conference on Structural Safety and Reliability, ICOSSAR '89*, Vol. II, 1349-1357.
10. Di Paola, M., Falsone, G., 1989, Stochastic dynamics of nonlinear systems under non Gaussian input, *Engineering Science, 26th Annual Techn. Meeting Soc. of Engng. Science*, Ann Arbor, Michigan.
11. Di Paola, M., Muscolino, G., 1990, Stochastic dynamics of nonlinear systems, *Proc. of the International Meeting in memory of Prof. M. Romano*, Catania, 337-349.
12. Di Paola, M., Falsone, G., Muscolino, G., Ricciardi, G., 1990, Modal analysis for random response of MDOF systems, *Stochastic Structural Dynamic* (Eds. Y.K. Lin, I. Elishakoff), Springer Verlag, Berlin, Vol. 1, 66-81.
13. Di Paola, M., Falsone, G., Muscolino, G., Ricciardi, G., 1991, Composite subsystems under random base excitations, *Proc. ICASP 6*, Mexico, Vol. 1, 463-470.
14. Di Paola, M., Falsone, G., Muscolino, G., 1991, Random vibration of SDOF nonlinear systems, *Proc. of the ENEA Workshop on Non Linear Mechanics*, World Sc. Publisher, Vol. 4, 170-183.
15. Di Paola, M., Muscolino, G., 1991, Non stationary probabilistic response of linear systems under non Gaussian input, *Computational Stochastic Mechanics*, Elsevier (P.D. Spanos and A. Brebbia, Eds.), 293-302.
16. Di Paola, M., Ricciardi, G., 1992, Vibration of a bridge under a random train of moving loads, *ASCE Probabilistic Mech. and Struct. Geotechnical Reliability*, Denver, 140-143.
17. Caddemi, S., Di Paola, M., 1993, Hysteretic systems subjected to delta correlated input, *Prob. Struct. Mechanics: Advances in Structural Reliability Methods*, Springer Verlag, 56-67.
18. Caddemi, S., Di Paola, M., Vasta, M., 1993, Maximum peak of the response of structures under stochastic loads, *Proc. of II European Conference on Struct. Dynamics, Eurodyn '93*, Trondheim, Norway, 729-733.
19. Benfratello, S., Di Paola, M., Vasta, M., 1994, Envelope function for wide band stochastic processes, *Proc. of the 2th International Conference on Computational Stochastic Mechanics*, 13-15.
20. Anh, N.D., Di Paola, M., 1995, Some excitation of Gaussian equivalent linearization, *Proc. of Int. Conference on Nonlinear Stochastic Dynamics*, Hanoi, 6-16.
21. Caddemi, S., Di Paola, M., 1995, Generation of multivariate normal stochastic processes, *Proc. of International Conference on Non Linear Stochastic Dynamics*, Hanoi, Vietnam, 7-10.
22. Di Paola, M., Muscolino, G., 1995, Response in terms of correlations of linear systems under polynomials of filtered nonnormal Poisson processes, *International Conference on Nonlinear Stochastic Dynamics*, Hanoi, Vietnam.
23. Di Paola, M., Pirrotta, A., 1996, Monte Carlo simulation for nonlinear systems excited by parametric impulsive noises, *Proceeding of the Third European Conference on Structural Dynamics, Eurodyn '96*, Vol. 1, 335-340;
24. Di Paola, M., Pirrotta, A., 1996, Stochastic dynamics of non linear systems excited by parametric delta correlated processes, *Proc. of VII Speciality Conference on Probabilistic Mechanics and Structural Reliability*, Worcester, 930-933.

25. Baratta, A., Di Paola, M., 1996, Optimal control law for linear SDOF structures, *Proc. of First European Conference on Structural Control, Series on Stability, Vibration and Control of System, World Scientific*, (A. Baratta, J. Rodellar, Eds.), 56-64.
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