



NATIONAL TECHNICAL UNIVERSITY OF ATHENS

SCHOOL OF CIVIL ENGINEERING

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PUBLICATIONS

His publication record includes 18 books, 5 guest edited journal special issues (3 of *Engineering Analysis with Boundary Elements* and 2 of *Archive of Applied Mechanics*), 8 invited chapters and original papers in books, Editor of 9 Conference Proceedings, 2 Doctoral Dissertations and 240 original papers in the most reputed international journals and International Conference proceedings. His text book on the BEM (Elsevier 2002) has been translated into Japanese (Asakura, Tokyo 2004), Russian (Publishing House of Russian Civil Engineering Universities, Moscow 2007) and Serbian *Gradjevinska Knjiga*, Belgrade 2011. His published work has received about 1500 citations with an h-index=20. About 200 of his 240 publications are devoted to the development and application of the BEM and in general to integral equation methods as well as to other mesh reduction methods.

List of Publications

Books

(a) Published by International Publishing Companies

1. **Katsikadelis, J.T.**, (2002). *Boundary Elements: Theory and Applications*, Elsevier, London
2. **.カチカデーリス J.T. 著** (2004), 境界要素法—基本と応用 原書名
(Katsikadelis, J.T. :*Boundary Elements: Theory and Applications*, (Translation in Japanese of “*Boundary Elements: Theory and Applications*, Elsevier), Asakura, Tokyo, Japan.
3. **Кацикаделис Дж. Т.** (2007) “Граничные элементы. Теория и приложения,” (Translation in Russian of “*Boundary Elements: Theory and Applications*, Elsevier), Publishing House of Russian Civil Engineering Universities, Moscow (Russian translation).
4. **Katsikadelis, Dž. T.** (2011) “*Granični Elementi. Teorija i Primene*”, Gradjevinska Knjiga, Belgrade (Serbian Translation)



(b) Published by Greek publishing Companies and NTUA (in Greek)

1. **Katsikadelis J.T.** *Plane Elasticity and Shear Walls*, (1977), FOTO & .OFFSET Publications, Athens, pp. 170.
2. **Katsikadelis J.T.** *Theory of Plates*, (1987 & 1983), NTUA, Athens, pp 120.
3. **Katsikadelis J.T.**, *Lessons of Dynamic Analysis of Frame Structures*. (1982, 1985, 1991 & 2000), NTUA, Athens, pp.179.
4. **Katsikadelis J.T.**, *Boundary Elements. Theory and Applications*, (1999), SYMEON Publications, Athens, pp.360.
5. **Katsikadelis J.T.**, *Dynamic of Structures*, Vol. I, Τόμος Ι, (2002), SYMMETRIA Publications, Athens, pp. 394.
6. **Katsikadelis J.T.**, *Dynamic of Structures*, Vol. II, (2004 & 2008), SYMMETRIA Publications, Athens, pp. 538.

7. **Katsikadelis J.T.**, *Boundary Elements: Vol. II, Analysis of Plates*, (2009), First Edition, NTUA, Athens, 115.
8. **Katsikadelis J.T.**, *Boundary Elements: Vol. II, Analysis of Plates*, (2010), Second Edition, NTUA, Athens, 260.
9. **Katsikadelis J.T.**, *Boundary Elements. Theory and Applications*, (2012), SYMEON Publications, Athens, pp.668 (in print).
10. **Katsikadelis J.T.**, *Dynamic Analysis of Structures*, (1012), SYMMETRIA Publications, Athens, pp. 996 (in print).



(c) Lecture Notes published by NTUA (in Greek)

11. **Katsikadelis J.T.**, *Dynamic Analysis of Multistory Buildings*, (2000), NTUA, Athens, pp. 94.
12. **Katsikadelis, J.T.** and **Nerantzaki, M.S.**, (1993), *Lessons of Statics III. Modern Methods of Structural Analysis*, (1993), NTUA, Athens, pp.94.
13. **Katsikadelis, J.T.**, **Papadrakakis, M**, **Sapountzakis, E.J.** and **Nerantzaki, M.S.**, (2003), *Applications of the Stiffness Method (STATICS III)*, NTUA, Athens, pp. 104.

14. **Papadrakakis, M., Katsikadelis, J.T., Sapountzakis, E.J. and Nerantzaki, M.S.,** (2006). *Modern Methods of Structural Analysis (STATICS III)*, NTUA, Athens, pp. 208.

Editor of Conference Proceedings

1. **Aravas N and Katsikadelis J.T.** (1999) *Proceedings of the 3rd National Congress on Computational Mechanics*, Vol. I & Vol. II, June 24-26, .University of Thessaly Press, Volos, Greece.
2. **Katsikadelis J.T., Beskos D.E. and Gdoutos E.E.** (2000). *Recent Advances in Applied Mechanics*. Honorary Volume for Prof. A.N. Kounadis, November 25, Athens Greece. Symmetria Press.
3. **Beskos D.E., Katsikadelis J.T., Manolis G.D. and Brebbia C.A.** (2001). *Boundary Elements XXIII*, Advances in Boundary Elements Series, WIT Press, Southampton.
4. **Brebbia C.A. and Katsikadelis J.T.** (2006) *Boundary Elements and Other Mesh Reduction Methods XXVIII*, WIT Press, Southampton.
5. **Bazeos, N., Karabalis, D.L., Polyzos, D., Beskos, D.E. and Katsikadelis J.T.** (2007). *Proc. 8th International Congress on Mechanics of HSTAM*, July 12-14, Patras, Greece.
6. **Katsikadelis J.T.,** (2007) *Recent Advances in Mechanics, Proc. 6th German-Greek-Polish Symposium*, September 17-21, Alexandroupolis, Greece.
7. **Atanackovic T.M. and Katsikadelis J.T.** (2008). *Recent Advances in Mechanics, Proc. 3rd Serbian-Greek Symposium*, September 15-17, Novisad, Serbia.
8. **P. Papanastasiou, P. Roussis, D. Loukidis, E. Sarris, J. Katsikadelis,** *Proc. 8th International Congress on Mechanics of HSTAM*, July 12-14, Limassol, Cyprus.
9. **Igic T.M. and Katsikadelis J.T.** (2011). *Recent Advances in Mechanics, Proc. 4th Serbian-Greek Symposium*, September 15-17, Vlasina Lake, Serbia.

Guest editor of Special Issues of International Journals

1. *Engineering Analysis with Boundary Elements*, Special Issue on Plates, Vol. 17 (2), pp. 91-181 (1996).
2. *Engineering Analysis with Boundary Elements*, Special Issue on Nonlinear BEM, Vol. 23, (5-6), pp. 363-525 (1999)
3. *Archive of Applied Mechanics*, Special Issue on the 5th German-Greek-Polish Symposium on Advances on Mechanics, Vol. 74 (11-12) pp. 729-898 (2005).
4. *Engineering Analysis with Boundary Elements*, Special Issue on BEM/MRM for inhomogeneous Solids, Vol. 32 (12), pp.995-174 (2008).
5. *Archive of Applied Mechanics*, Special Issue on the 6th German-Greek-Polish Symposium on Advances on Mechanics, Vol. 79 (6-7), pp. 479-677 (2009).

Invited Chapters and Original papers in Books

1. **Κατσιαδέλης, Ι.Θ.** Στοιχεία Δυναμικής Ανάλυσης Μονοβαθμίων και Πολυβαθμίων Ελαστικών Συστημάτων (1985), ΔΥΝΑΜΙΚΗ ΣΥΜΠΕΡΙΦΟΡΑ ΤΩΝ ΚΑΤΣΚΕΥΩΝ, Τόμος 1, Ελληνική Εταιρία Θεωρητικής και Εφαρμοσμένης Μηχανικής, Εκδόσεις ΠΛΑΙΣΙΟ, σελ. 12-50.

2. **Katsikadelis, J.T.** and **Vayas, I.** (1990). ESDEP Lecture No 4 Unstiffened plates, WG 8, Plates and Shells.
3. **Katsikadelis, J.T., Sedlacek, G.** and **Ungermann, D.** (1990). ESDEP, Lecture No 1, Basis introduction to plate behavior, WG 8, Plates and Shells.
4. **Katsikadelis, J.T.** (1991). Special Methods for Plate Analysis. In: Beskos, D., (ed.), *Boundary Element Analysis for Plates and Shells*, Springer-Verlag, Berlin, 221-311.
5. **Katsikadelis J.T.** (1994). A New Time Step Integration Scheme for Structural Dynamics Based on the Analog Equation Method", *Collection of papers dedicated to Prof. P.S. Theocaris*, National Technical University of Athens 80-100.
6. **Nerantzaki, M.S.** and **Katsikadelis, J.T.** (1998). Analysis of Plates with Variable Thickness. An Analog Equation Solution. In: Aliabadi, F. (Ed.), *Plate Bending Analysis with Boundary Elements*, Chapt. 9, pp. 275-308, Computational Mechanic Publications.
7. **Kokkinos F.T.** and **Katsikadelis J.T.** (2003). Three-Dimensional Analysis of Thick In-fill Walls under Unilateral Interface Conditions by a Pure Boundary Method, *Scientific Publications of the Greek Military Academy*, 2, 261–281.
8. **Katsikadelis J.T.** (2009). The fractional wave-diffusion equation in bounded inhomogeneous anisotropic media. An AEM solution, In: Manolis, G.D. and Polyzos D. (Eds), *Advances in Boundary Element Methods: A Volume to Honor Professor Dimitri Beskos*, pp. 255-256, Springer Science, Dordrecht, Netherlands.

Doctoral dissertations

1. **Katsikadelis J.T.** (1973) "*A Method for Evaluation of the Plane Stress Components in the Interior of Thin Plates from Given Boundary Stresses Obtained Experimentally*", Dissertation for the Degree of Doctor Engineer, NTUA, Athens.
2. **Katsikadelis J.T.** (1982) "*The Analysis of Plates on Elastic Foundation by the Boundary Integral Equation Method*", Dissertation in partial fulfilment for the Degree of Doctor of Philosophy (PhD) in Applied Mechanics at the Polytechnic University of New York, New York.

Publications in Refereed Journals

1. **Kounadis A.N.** and **Katsikadelis J.T.** (1976). Shear and Rotatory Inertia Effect on Beck's Column. *Journal of Sound and Vibration*, 49 (2), pp. 171-178.
2. **Katsikadelis J.T., Massalas C.V.** and **Tzivanidis G.I.** (1977). An Integral Equation Solution of the Plane Problem of the Theory of Elasticity. *Mechanics Research Communication*, 4 (3), pp.199-208.
3. **Katsikadelis J.T.** (1978). Application of the Rate Equations to the Buckling Problem of Circular Cylindrical Shells. *Technica Chronica*, 1, pp. 53-59.
4. **Massalas C.V., Tzivanidis G.I.** and **Katsikadelis J.T.** (1978). Buckling of a Continuous Beam Resting on a Tensionless Elastic Foundation, *Journal of Franklin Institute*, 306 (6), pp. 449-455.

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6. **Kounadis A.N.** and **Katsikadelis J.T.** (1979). Coupling Effects on a Cantilever Subjected to a Follower Force. *Journal of Sound and Vibration*, 62, pp. 131-139.
7. **Kounadis A.N.** and **Katsikadelis J.T.** (1980). On the Discontinuity of the Flutter Load for Various Types of Cantilevers. *International Journal of Solids and Structures*, 16 (4), pp. 375-383.
8. **Yotis A.J.**, **Katsikadelis J.T.** and **Kounadis A.N.** (1982). Stability Analysis of Box-Shaped Structures of Rectangular Cross-Section. *Revue Roumaine des Sciences Techniques. Serie Mecanique Appliquee*, 27 (6), pp. 681-695.
9. **Katsikadelis J.T.** and **Armenakas A.E.** (1983). Numerical Evaluation of Double Integrals with a Logarithmic or Cauchy-Type Singularity. *Journal of Applied Mechanics, Transactions ASME*, 50 (3), pp. 682-684.
10. **Katsikadelis J.T.** and **Kounadis A.N.** (1983). Flutter Loads of a Timoshenko Beam-Column under a Follower Force Governed by two Variants of Equations of Motion. *Acta Mechanica*, 48 (3-4), pp.209-217.
11. **Katsikadelis J.T.** and **Armenakas A.E.** (1984). Analysis of Clamped Plates on Elastic Foundation by the Boundary Integral Equation Method. *Journal of Applied Mechanics, Transactions ASME*, 51, pp. 547-580.
12. **Katsikadelis J.T.** and **Armenakas A.E.** (1984). Plates on Elastic Foundation by the BIE Method. *ASCE, Journal of Engineering Mechanics*, 110, (7), pp. 1086-1105.
13. **Massalas C.V.**, **Tzivanidis G.I.** and **Katsikadelis J.T.** (1985). Degeneracy in Plates Subjected to Elastic Constraints. *Revue Roumaine des Sciences Techniques. Serie Mecanique Appliquee*, 30, (6), pp.635-639.
14. **Katsikadelis J.T.** and **Armenakas A.E.** (1985). Numerical Evaluation of Line Integrals with a Logarithmic Singularity. *AIAA Journal*, 23 (7), pp. 1135-1137.
15. **Katsikadelis J.T.** and **Sapountzakis E.J.** (1985). Torsion of Composite Bars by the boundary Element Method. *ASCE, Journal of Engineering Mechanics*, 111 (9), pp.1197-1210.
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17. **Katsikadelis J.T.** and **Kallivokas L.** (1986). Clamped Plates on Pasternak-type Elastic Foundation by the Boundary Element Method. *Journal of Applied . Mechanics, Transactions ASME*, 53 (4), pp. 909-917.
18. **Katsikadelis J.T.** and **Kokkinos F.T.** (1987). Static and Dynamic Analysis of Composite Shear Walls by the Boundary Element Method. *Acta Mechanica*, 68 (3-4), pp. 231-250.
19. **Katsikadelis J.T.** and **Sapountzakis E.J.** (1988). An Approach to the Vibration Problem of Homogeneous, Non-homogeneous and Composite Membranes Based on the Boundary Element Method. *International Journal for Numerical Methods in Engineering*, 26 (11), pp. 2439-2455.

20. **Katsikadelis J.T.** and **Kallivokas L.** (1988). Plates on Biparametric Elastic Foundation by BDIE Method. *ASCE Journal of Engineering Mechanics*, 114, (5), pp.847-875.
21. **Nerantzaki M.S.** and **Katsikadelis J.T.** (1988). A Green's Function Method for Nonlinear Analysis of Plates. *Acta Mechanica*, 75 (1-4), pp. 211-225.
22. **Katsikadelis J.T.** and **Armenakas A.E.** (1989). A New Boundary Equation Solution to the Plate Problem. *Journal of Applied Mechanics, Transactions ASME*, 56, pp. 364-374.
23. **Katsikadelis J.T., Sapountzakis E.J.** and **Zorba E.G.** (1990). A BEM Approach to Static and Dynamic Analysis of Plates with Internal Supports. *Computational Mechanics*, 7 (1), pp. 31-40.
24. **Katsikadelis J.T.** and **Kandilas C.B.** (1990). A Flexibility Matrix Solution of the Vibration Problem of Plates Based on the Boundary Element Method. *Acta Mechanica*, 83 (1-2), pp 51-60.
25. **Katsikadelis J.T.** (1990). A Boundary Element Solution to the Vibration Problem of Plates. *Journal of Sound and Vibration*, 141(2), pp. 313-322.
26. **Katsikadelis J.T.** and **Sapountzakis E.J.** (1991). A BEM Solution to Dynamic Analysis of Plates with Variable Thickness. *Computational Mechanics*, 7 (5-6), pp. 369-379.
27. **Sapountzakis E.J.** and **Katsikadelis J.T.** (1991). Boundary Element Solution for Plates of Variable Thickness. *ASCE, Journal of Engineering Mechanics*, 117 (6), pp. 1241-1256.
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29. **Sapountzakis E.J.** and **Katsikadelis J.T.** (1992). Unilaterally Supported Plates on Elastic Foundation by the Boundary Element Method. *Journal of Applied Mechanics, Transactions ASME*, 59 (3), pp. 580-586.
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31. **Katsikadelis J.T.** and **Yotis A.J.** (1993). A New Boundary Element Solution of Thick Plates Modelled by Reissner's Theory. *Engineering Analysis with Boundary Elements*, 12 (1), pp. 65-74.
32. **Katsikadelis J.T.** and **Nerantzaki M.S.** (1994). Non-linear Analysis of Plates by the Analog Equation Method. *Computational Mechanics*, 14 (2), pp. 154-164.
33. **Katsikadelis J.T.** (1996). Editorial. *Engineering Analysis with Boundary Elements*, 17, pp. 91.
34. **Nerantzaki M.S.** and **Katsikadelis J.T.** (1996). An Analog Equation Solution to Dynamic Analysis of Plates with Variable Thickness", *Engineering Analysis with Boundary Elements*, Vol. 17 (2 Special Issue), pp. 145-152.

35. **Nerantzaki M.S.** and **Katsikadelis J.T.** (1996). Buckling of Plates with Variable Thickness - An Analog Equation Solution. *Engineering Analysis with Boundary Elements*, 18 (2), pp. 149-154.
36. **Katsikadelis J.T.** and **Kandilas C.B.** (1997). Solving the Plane Elastostatic Problem by the Analog Equation Method. *Computers and Structures*, 64 (1-4), pp. 305-312.
37. **Katsikadelis J.T.** and **Nerantzaki M.S.** (1999). The Boundary Element Method for Nonlinear Problems. *Engineering Analysis with Boundary Elements*, 23 (5), pp.365-373.
38. **Katsikadelis J.T.** and **Tanaka M.** (1999). Editorial, *Engineering Analysis with Boundary Elements*, 23, pp. 363.
39. **Sapountzakis E.J.** and **Katsikadelis J.T.** (1999). Dynamic Analysis of Elastic Plates Reinforced with Beams of Doubly-Symmetrical Cross Section. *Computational Mechanics*, 23 (5), pp. 430-439.
40. **Sapountzakis E.J.** and **Katsikadelis J.T.** (2000). Elastic Deformation of Ribbed Plate Systems under Static, Transverse and Inplane Loading. *Computers and Structures*, Vol.74, pp. 571-581.
41. **Sapountzakis E.J.** and **Katsikadelis J.T.** (2000). Interface Forces in Composite Steel-Concrete Structures. *International Journal of Solids and Structures*, 37 (32), pp 4455-4472.
42. **Sapountzakis E.J.** and **Katsikadelis J.T.** (2000). Analysis of Plates Reinforced with Beams, *Computational Mechanics*, 26 (1), pp. 66-74.
43. **Katsikadelis J.T.** and **Nerantzaki M.S.** (2000). A Boundary-only Solution to Dynamic Analysis of Non-homogenous Elastic Membranes. *CMES - Computer Modelling in Engineering and Sciences*, 1 (3), pp. 1-9.
44. **Yiotis, A.J.** and **Katsikadelis J.T.** (2000). Static and Dynamic Analysis of Shell Panels Using the Analog Equation Method. *CMES - Computer Modelling in Engineering and Sciences*, 1 (2), pp. 95-104.
45. **Katsikadelis J.T.** and **Nerantzaki, M.S.** (2001). A Boundary Element Solution to the Soap Bubble, Problem. *Computational Mechanics*, 27 (2), pp.154-159.
46. **Katsikadelis J.T.** and **Tsiatas C.G.**, (2001). The Analog Equation Method for Large deflection Analysis of Heterogeneous Orthotropic Membrane: A Boundary-only Solution. *Engineering Analysis with Boundary Elements*, 25 (8), pp. 655-667.
47. **Katsikadelis J.T.**, **Nerantzaki M.S.** and **Tsiatas G.C.** (2001). The Analog Equation Method for Large Deflection Analysis of Membranes. A Boundary Only Solution. *Computational Mechanics*, 27 (6), pp. 513-523.
48. **Sapountzakis E.J.** and **Katsikadelis J.T.** (2001). Analysis of Prestressed Concrete Slab-and-Beam Structures. *Computational Mechanics*, 27 (6), pp. 492-503.
49. **Katsikadelis J.T.** (2002). Dynamic Analysis of Nonlinear Membranes by the Analog Equation Method. A Boundary-only Solution. *Computational Mechanics*, 29 (2), pp. 170-177.

50. **Katsikadelis J.T** and **Sapountzakis E.J.** (2002). A Realistic Estimation of the Effective Breadth of Ribbed Plates. *International Journal of Solids and Structures*, 39 (4), pp. 897-910.
51. **Sapountzakis E.J.** and **Katsikadelis J.T.** (2002). Creep and Shrinkage Effect on Reinforced Concrete Slab-and-Beam Structures. *ASCE Journal of Engineering Mechanics*, 128 (6), pp.625-634.
52. **Katsikadelis J.T.** and **Nerantzaki, M.** (2002). The Ponding Problem on Membranes. An Analog Equation Solution. *Computational Mechanics*, 28 (2), pp.122-128.
53. **Katsikadelis, J.T.** (2002). The Analog Equation Method. A Boundary-only Integral Equation Method for Nonlinear Static and Dynamic Problems in General Bodies. *International Journal of Theoretical and Applied Mechanics*, 27, pp. 13-38.
54. **Sapountzakis E.J.** and **Katsikadelis J.T.** (2003). Creep and Shrinkage Effect on the Dynamic Analysis of Reinforced Concrete Slab-and-Beam Structures. *Journal of Sound and Vibration*, 260 (3), pp. 403-416.
55. **Katsikadelis J.T.** and **Tsiatas C.G.**, (2003). Nonlinear Dynamic Analysis of Heterogeneous Orthotropic Membranes. *Engineering Analysis with Boundary Elements*, Vol. 27, pp. 115-124.
56. **Sapountzakis E.J.** and **Katsikadelis J.T.** (2002). Influence of the Inplane Boundary Conditions on the Vibration Frequencies and Buckling Load of Ribbed Plates, *International Journal of Structural Stability and Dynamics*, 2, pp. 25-43.
57. **Sapountzakis E.J.** and **Katsikadelis J.T.** (2002). A New Model of Slab and Beam Structures – Comparison with other Models”, *International of Journal Computers and Structures*, 80 (5-6), pp. 459-470.
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60. **Katsikadelis J.T.** and **Yiotis A.J.** (2003). The BEM for plates of Variable Thickness on Nonlinear Biparametric Elastic Foundation. An Analog Equation Solution. *Journal for Engineering Mathematics*, 46 (3-4), pp. 313-330.
61. **Katsikadelis, J.T.** and **Tsiatas C.G.** (2003). Large Deflection Analysis of Beams with Variable Stiffness. *Acta Mechanica*, 164 (3-4), pp. 1-13
62. **Sapountzakis E.J.** and **Katsikadelis J.T.** (2003). A New Model for the Analysis of Composite Steel-Concrete Slab Beam Structures with Deformable Connection. *Computational Mechanics*, 31 (3-4), pp. 340-349.
63. **Nerantzaki M.S.** and **Katsikadelis J.T.** (2003). Large Deflections of Axisymmetric Circular Plates with Variable Thickness. *International Journal for Computational Civil and Structural Engineering*, 1 (5), pp. 75-83.
64. **Kokkinos F.T.** and **Katsikadelis J.T.** (2003). Three-Dimensional Analysis of Thick In-fill Walls under Unilateral Interface Conditions by a Pure Boundary Method. *Scientific Publications of the Greek Military Academy*, 2, pp. 261–281.

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71. **Tsiatas C.G.** and **Katsikadelis, J.T.** (2006). A BEM based Domain Decomposition Method for Nonlinear Analysis of Elastic Membrane. *Computational Mechanics*, 38 (2), pp. 119-131.
72. **Nerantzaki M.S.** and **Katsikadelis J.T.** (2007). Nonlinear Dynamic Analysis of Circular Plates with Varying Thickness, *Archive of Applied Mechanics*, 77 (6), pp. 381-391.
73. **Katsikadelis J.T.** and **Tsiatas C.G.** (2007). Optimum Design of Structures Subjected to Follower Forces. *International Journal of Mechanical Sciences*, 49 (11), pp. 1204-1212.
74. **Katsikadelis, J.T.** and **Tsiatas, C.G.**, (2007). Nonlinear Dynamic Stability of Damped Beck's Column with Variable Cross-section, *International Journal of Nonlinear Mechanics*, 42 (1), pp 164-171.
75. **Chinnaboon B.**, **Chucheepsakul S.** and **Katsikadelis' J.T.** (2007) A BEM-based Meshless Method for Buckling Analysis of Elastic Plates with Various Boundary Conditions. *International Journal of Structural Stability and Dynamics*, 7, (1), pp. 81-89.
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