

JOHN ERMOPOULOS
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BIOGRAPHICAL NOTE, ATHENS – 2010

1. GENERAL INFORMATION

Born on June 6, 1944. Married, two children.

- 1956-1962 High school studies.
- 1962-1964 Military service.
- 1969 Degree in Civil Engineering, National Technical University of Athens (NTUA), Greece.
- 1970-1984 **Teaching assistant** at Nat. Tech. Univ. of Athens, in the chair of Structural Analysis and Steel Bridges, Lab. of Metal Structures.
- 1985 **PhD** at School of Civil Eng-ing, NTUA (unanimously excellently).
- 1985-1988 **Lecturer** at NTUA, School of Civil Eng-ing.
- 1988-1993 **Assistant Professor** at NTUA, School of Civil Eng-ing.
- 1993-1999 **Associate Professor** at NTUA, School of Civil Eng-ing.
- 1999-today **Professor** at NTUA, School of Civil Eng-ing.
- 1981-today **Professor** at the Technical Education School of the Greek Army Officers, in the chair of Steel Structures.
- 1990 (Fall Semester) **Visiting Professor** at University of Colorado at Denver, USA. (research in Stability of Steel Structures and Bridges).
- 1976-today Member of the scientific committee for Steel Structures in the Technical Chamber of Greece.
- 1983-today Member of Metal Structures Research Society (MSRS).
- 1991-1995 Member of the Computer Committee of ESDEP (European Steel Design Education Programme).
- 1992 (Spring Semester) **Visiting Professor** at University of Colorado at Denver, USA.
- 1994 **Visiting Professor** at Steel Construction Institute, Ascot, United Kingdom (from May to July).
- 1994-1995 Representative of the Civil Engineering Department in the Senate of the National Technical University of Athens.
- 1995-1997 **Director** of the Department of Structural Analysis in N.T.U.A.
- 2004-today **Director** of the Laboratory of Metal Structures.
- 2004-today **President** of the Metal Structures Research Society (MSRS).
- 2006-2009 Member of the Senate of the National Technical University of Athens.
- 2006-2009 **Vice-Dean** in the School of Civil Engineering in NTUA.

2. SCIENTIFIC ACTIVITIES

He is author of numerous publications in national and international Journals and Conferences. He is also author of various technical books. He participated in numerous national and international Conferences, Seminars, Workshops and Scientific meetings.

He is working in the area of Stability of Structures, Analysis and Behaviour of Tapered members, Semi-rigid beam-to-column connections under monotonic and cyclic loading, Column bases under monotonic and cyclic loading etc. He has developed various analytical models for the study of the above matters, and also he has developed useful tables and diagrams for the practicing engineers, published in various journals.

He is the main researcher in various national and international projects regarding the above subjects. Moreover he has participated in European Educational projects for the production of new material using multimedia (ESDEP, WIVISS, SSEDTA, NFATEC, EURING etc). He has also participated in bilateral scientific projects (with Germany, Czech Republic etc).

He was Visiting Professor at the University of Colorado at Denver (research in Stability of Steel Structures and Bridges), during the Fall Semester 1990, and the Spring Semester 1992.

He was also Visiting Professor at Steel Construction Institute (SCI), Ascot, United Kingdom, from May to July 1994.

He has given more than 100 lectures as invited lecturer in Greece and abroad (USA, United Kingdom, Taiwan, Czech Republic, Bulgaria, Serbia, Romania, Cyprus, Poland, Norway etc), regarding Steel structures and earthquake, Repair after an earthquake, Loading of structures according to Eurocode 1, Spacetrusses, Built-up compression members, Column base connections, Stability of members etc.

There are more than 200 references to his papers in various journals, books, codes etc.

He is **DOCTOR HONORIS CAUSA** from «Ljuben Karavelov-VSU» Civil Engineering High School, SOFIA, since May 29, 2008.

He is Member in various scientific Committees and Societies, e.g.:

- Technical Chamber of Greece, 1969-today.
- International Association for Bridge and Structural Engineering (**IABSE**), 1986-today.
- American Academy of Mechanics (**AAM**), 1992-today.
- Structural Stability Research Council (**SSRC**), 1991-today.
- Steel Construction Institute (**SCI**), 1994-today.
- Metal Structures Research Society (**MSRS**), 1983-today.
- Greek Scientific Committee of Steel Structures (Technical Chamber of Greece), 1976-today.
- Computer Committee of European Steel Design Education Programme (**ESDEP**), 1990-95.
- Greek Society of Earthquake Mechanics, 2002-today.
- Greek Scientific Society of Wind Mechanics, 2004-today.
- Member of the Working Group for the Greek Codes of Steel Structures, etc.

He is reviewer for scientific papers in the following Journals:

- Technika Chronika TCG, 1991-today.
- International journal of Solids and Structures, 1997- today.
- Journal of Sound and Vibration, 1997- today.
- Journal of Computers and Structures, 1998- today.

- International journal of Structural Engineering and Mechanics, 2000- today.
- Journal of Constructional Steel Research, 2000- today.
- International journal of Steel and Composite Structures, 2000- today.
- International journal of Engineering Structures, 2008- today.
- International journal of Engineering Mechanics, 2008- today
- Structural Engineering International (Journal of IABSE), 2009- today.

3. EDUCATIONAL AND SOCIAL ACTIVITIES

He is teaching from 1970 until now Steel and Composite Structures, Steel and Composite Bridges, Stability Analysis etc. He is also teaching Steel Structures at the Technical Education School of the Greek Army Officers from 1982 until today. In the program “Design and Analysis of Structures” of the postgraduate studies in NTUA, he is teaching the course “Design of civil engineering works” from 1998 until today.

He has supervised more than 70 graduate students for their Degree Thesis elaboration. He is also one of the three members’ committee for more than twenty postgraduate students for their PhD.

He is member in the board of directors of some Cultural Clubs and he was invited to give social lectures in Greece and abroad. His Curriculum is included in some Greek and European “Who is Who” books.

Some of the educational projects that participated are the following:

- **ESDEP** (European Steel Design Education Programme), Leonardo da Vinci project, many European countries were participated in this huge program. He was member of the Computer and the Sponsorship Committees, member of the Project Teams for the Eurocode 3, Part 1-7: General rules-Supplementary rules for planar plated structural elements with out of plane loading and Part 4-1: Design of steel structures, Silos, Tanks and Pipelines-Silos. Duration: 1991-1995.
- **WIVISS** (Wider Vocational Training in Structural Steelwork), Leonardo da Vinci project. Participants: United Kingdom, Spain, Netherlands, Greece (scientific responsible: J. Ermopoulos), France, Belgium, Italy, Denmark, Czech Republic, Slovakia and Austria. Duration: 1996-1999.
- **SSEDTA 1 & 2** (Structural Steelwork Eurocodes-Development of Trans-National Approach) on EC3 & EC4, Leonardo da Vinci project. Participants: United Kingdom, Spain, Belgium, Greece (scientific responsible: J. Ermopoulos), Hungary, Slovakia and France. Duration: 1997-2001.
- **NFATEC** (A New and Flexible Approach to Training for Engineers in Construction), Leonardo da Vinci project. Participants: United Kingdom, Spain, Belgium, Greece (scientific responsible: J. Ermopoulos), Hungary, Slovakia and Austria. Duration: 2002-2004.
- **EURING** (Development of ICT supported, flexible training to enable designers to apply Eurocodes in accordance with the national regulations of different member states), Leonardo da Vinci project. Participants: United Kingdom, Spain, Belgium, Greece (scientific responsible: J. Ermopoulos), Hungary, Slovakia and Germany. Duration: 2006-2008.

4. PROFESSIONAL ACTIVITIES

Regarding the professional activities he is the designer of a numerous of steel and reinforced concrete structures (multistorey residential and office buildings, industrial buildings, warehouses, schools, churches, car-park buildings, hotels, sport halls, space structures, steel masts, silos, chimneys, steel and composite bridges etc).

He is also Consultant in various public and private technical projects. During the preparation for the Olympic Games 2004 in Athens, he was Consultant of the Greek Ministry of Culture and leader of the technical team for the check of the designs for many new arenas and other structures (Roof of the main Olympic Stadium, Velodrome, Nation's Wall, Agora etc).

Reporter of some expert appraisements for collapsed steel structures.

He has constructed a series of scientific and professional computer programs.

5. BOOKS-PUBLICATIONS IN JOURNALS & CONFERENCES-TECHNICAL REPORTS ETC

Books

1. **Elements on the Design of Steel Structures**, ed. NTUA, pp. 357, Athens, 1993 (**J. Ermopoulos**).
2. **Steel Bridges**, ed. NTUA, pp. 267, Athens, 1994 (**J. Ermopoulos**).
3. **Column-bases**, monograph, pp 50, 1994 (**J. Ermopoulos**).
4. **Steel Structures, Design examples on Eurocode 3**, VOLUME I, ed. KLEIDARITHMOS, pp. 469, Athens, 1997 (I. Vayas, **J. Ermopoulos** and G. Ioannidis).
5. **Eurocode 1, Basis of Design and actions on the structures**, Design examples and comments, ed. KLEIDARITHMOS, pp. 210, Athens, 1997 (**J. Ermopoulos**).
6. **Anwendungsbeispiele zum Eurocode 3**, Bauingenieur-Praxis, Ernst & Sohn, Berlin, pp. 440, 1998 (I. Vayas, **J. Ermopoulos** and G. Ioannidis).
7. **Design of Steel Structures**, for the Postgraduate course in NTUA, pp. 269, Athens, 1998 (**J. Ermopoulos**).
8. **Steel Structures, Design examples on Eurocode 3**, VOLUME II, ed. KLEIDARITHMOS, pp. 459, Athens, 1999 (I. Vayas, **J. Ermopoulos** and G. Ioannidis).
9. **Steel and Composite Bridges according to Eurocodes**, ed. KLEIDARITHMOS, pp. 621, Athens, 2000 (**J. Ermopoulos**).
10. **Bemessungsbeispiele im Stahlbau nach Eurocode 3**, Ernst & Sohn, Berlin, pp. 664, 2001 (I. Vayas, **J. Ermopoulos** and G. Ioannidis).
11. **Steel Structures, Design examples on Eurocode 3**, Revised Edition, VOLUME I, ed. KLEIDARITHMOS, pp. 543, Athens, 2005 (I. Vayas, **J. Ermopoulos** and G. Ioannidis).
12. **Design of Steel Structures**, ed. KLEIDARITHMOS, pp. 702, Athens, 2005 (I. Vayas, **J. Ermopoulos** and G. Ioannidis).

Publications in Journals

1. "Contribution to the elastic stability analysis of rectangular plane frames consisting of tapered members", PhD Thesis, Athens, 1984 (**J. Ermopoulos**).
2. "Ultimate strength of plane joints built-up from hollow sections", *Technika Chronika*, pp. 803-814, Nov. 1974 (A. Kounadis and **J. Ermopoulos**).
3. "About the solution by computer of shear walls with openings towards their height, and of shear walls interacting with frames, under horizontal loading", *Technika Chronika*, pp. 5-21, 2-1976 (**J. Ermopoulos**).
4. "Postbuckling analysis of a simple frame with varying stiffness", *Acta Mechanica* 54, pp. 95-105, Springer-Verlag, 1984 (A. Kounadis and **J. Ermopoulos**).

5. "The optimum height design of double-layer grids at the stage of preliminary design", J. of Construct. Steel Research 4, pp. 281-293, 1984 (**J. Ermopoulos**).
6. "Influence of the shear-wall on the dynamic and seismic response of multistory frames", Scientific Papers of NTUA, pp. 1-27, Vol. 8, Jan-Dec. 1984 (P. Carydis and **J. Ermopoulos**).
7. "Stability of frames with tapered built-up members", J. of Structural Engineering, ASCE, Vol. 111, No 9, pp. 1979-1992, Sept. 1985 (**J. Ermopoulos and A. Kounadis**).
8. "Influence of characteristic factors in the analysis of Cable-Stayed bridges", Scientific papers of NTUA, Vol. 9, No 1-2, pp. 1-15, Jan.-Jun. 1985 (**J. Ermopoulos and N. Kolivodiakos**).
9. "Optimum rise design of steel arch bridges", J. of Construct. Steel Research 5, pp. 303-310, 1985 (**J. Ermopoulos and S. Ioannidis**).
10. "Free vibration of a low rise circular arch", Technika Chronika, Vol. 6, No 2, pp. 125-138, Apr.-Jun. 1986 (G. Michaltsos and **J. Ermopoulos**).
11. "Buckling of tapered bars under stepped axial loads", J. of Structural Engineering, ASCE, Vol. 112, No 6, pp. 1346-1354, June 1986 (**J. Ermopoulos**).
12. "The influence of characteristic parameters on the weight of a space truss", Scientific papers of NTUA, Vol. 10, No 2., pp. 17-27, Apr.-Jun. 1986 (**J. Ermopoulos and M. Grigoratos**).
13. "Influence of joint angle on the bending eigenfrequencies of a two-bar frame", Scientific papers of NTUA, Vol. 10, No 3, pp. 1-8, Jul.-Sept. 1986 (G. Michaltsos and **J. Ermopoulos**).
14. "Buckling of bridges with inclined legs", J. of Construct. Steel Research, Vol. 7, No 6, pp. 419-433, 1987 (**J. Ermopoulos and S. Ioannidis**).
15. "Slope-deflection method and bending of tapered bars under stepped loads", J. of Construct. Steel Research, 11, pp. 121-141, 1988 (**J. Ermopoulos**).
16. "Buckling analysis of cable-stayed bridges", Technika Chronika, Vol. 9, No 2, pp. 22-42, Apr.-Jun. 1989, (**J. Ermopoulos and S. Ioannidis**).
17. "Buckling analysis of simple frames with elastic restraints", Technika Chronika, Vol. 9, No 3, pp. 7-21, Jul. - Sept. 1989 (**J. Ermopoulos and J. Raftoyiannis**).
18. "Stability analysis and interaction surfaces of frames carrying crane girders", J. of Construct. Steel Research, 14, pp. 181-195, 1989 (**J. Ermopoulos and S. Ioannidis**).
19. "Stability of battened columns with and without taper", J. of Engineering Structures, Vol. 13, pp. 237-241, Jul. 1991 (**J. Ch. Ermopoulos, S. S. Ioannidis and A. N. Kounadis**).
20. "Zum Nachweis von Rahmentragwerken mit Verformbaren Knoten", Stahlbau, (60), Heft 11, pp. 326-332, 1991 (**J. Ermopoulos and I. Vayas**).
21. "Buckling length of framed compression members with semi-rigid connections", J. of Constructional Steel Research, 18, pp. 139-154, 1991 (**J. Ch. Ermopoulos**).
22. "Stability analysis of cable-stayed bridges", Journal of Computers and Structures, Vol. 44, No 5, pp. 1083-1089, 1992, (**J. Ch. Ermopoulos, A. S. Vlahinos and Yang-Cheng Wang**).
23. "A proposal of a system for the increase of the lateral stiffness in cable-stayed bridges", Journal "Constructor", Vol. 18, pp. 16-21, (S. Ioannidis and **J. Ermopoulos**).
24. "Buckling Analysis of Steel Arch Bridges", J. of Constructional Steel Research, 26, pp. 59-71, 1993 (A. S. Vlahinos, **J. Ch. Ermopoulos** and Yang-Cheng Wang).
25. "Dynamic analysis of horizontally stayed bridges under wind loading", Journal of Computers and Structures, Vol. 49, No 4, pp. 693-703, 1993 (D. S. Sophianopoulos, S. S. Ioannidis and **J. Ch. Ermopoulos**).
26. "Design of steel frames with slender joint-panels", J. of Construct. Steel Research, 35, pp. 165-187, 1995 (I. Vayas, **J. Ermopoulos** and H. Pasternak).
27. "Stability of simple steel frames with non-linear semirigid joints", Technika Chronika, I, Volume 1-3, pp. 15-28, 1995 (**J. Ermopoulos and N. Petrovits**).
28. "Analysis of rectangular joints of steel frames", Technika Chronika, I, Volume 1-2, pp. 19-28, 1996 (G. Michaltsos and **J. Ermopoulos**).

29. "Mathematical modelling of column base plate connections", J. of Construct. Steel Research, , Vol. 36, No2, pp. 79-100, 1996 (**J. Ermopoulos** and G. Stamatopoulos).
30. "Behaviour of square joints of steel frames under bending moment", J. of Computers and Structures, Vol. 58, No 1, pp. 189-194, 1996 (**J. Ermopoulos** and G. Michaltsos).
31. "Analytical modelling of column-base plates under cyclic loading", J. of Construct. Steel Research, Vol. 40, No3, pp. 225-238, 1996 (**J. Ermopoulos** and G. Stamatopoulos).
32. "Slope-Deflection method and fundamental bending moments of tapered compression bars", Technika Chronika, I, Volume 3, pp. 51-60, 1996 (**J. Ermopoulos**).
33. "Equivalent buckling length of non-uniform members", J. of Construct. Steel Research, Vol. 42, No2, pp. 141-158, 1997 (**J. Ermopoulos**).
34. "Critical loads and equivalent buckling lengths of tapered compression bars", Technika Chronika, I, Volume 1-2, pp. 73-82, 1997 (**J. Ermopoulos**).
35. "Interaction curves for column base-plate connections", J. of Construct. Steel Research, Vol. 44, Nos 1-2, pp. 69-89, 1997 (G. Stamatopoulos and **J. Ermopoulos**).
36. "Buckling length of nonuniform members under stepped axial loads", International Journal of Computers and Structures, 73, pp. 573-582, 1999 (**J. Ermopoulos**).
37. "Stability analysis of bars with asymmetric open thin walled cross-sections under eccentric axial thrust", scientific journal FACTA UNIVERSITATIS, Series: Mechanics, Automatic Control and Robotics, University of Nis, Vol. 2, No9, pp. 865-876, 1999 (G. Ioannidis, **J. Ermopoulos** and A. Kounadis).
38. "Dynamic response of column bases", Journal of Engineering Structures, 23, pp. 58-71, 2001 (G. Michaltsos and **J. Ermopoulos**).
39. "Investigation of the behavior of bolted connections in steel structures", Technika Chronika, Scientific Journal TCG, I, Volume 21, No 1-3, pp. 97-107, Jan.-Dec. 2001 (G. Stamatopoulos and **J. Ermopoulos**).
40. "Preliminary design of cable-stayed bridges for vertical static loads", International Journal of Structural Engineering and Mechanics, Vol. 16, No1, pp. 1-15, 2003 (G. Michaltsos, **J. Ermopoulos** and Th. Konstantakopoulos).
41. "Condition Assessment and Retrofit of a Historic Steel-Truss Railway Bridge", Journal of Construct. Steel Research, Vol. 60, pp. 1213-1225, 2004 (C. Spyrakos, I. Raftoyiannis and **J. Ermopoulos**).
42. "Stability of tapered and stepped steel columns with initial imperfections", International Journal of Engineering Structures, V.27, pp. 1248-1257, 2005 (J. Raftoyiannis and **J. Ermopoulos**).
43. "Development of aluminum load-carrying space frames for building structures", International Journal of Engineering Structures, V.27, pp. 1942-1950, 2005 (C. Spyrakos, I. Raftoyiannis and **J. Ermopoulos**).
44. "Validated Analysis and Strengthening of a 19th Century Railway Bridge", International Journal of Engineering Structures, V.28, pp. 783-792, 2006 (**J. Ermopoulos** and C. Spyrakos).
45. "Versagen des Daches der archaologischen Staette in Santorin/Griechenland", Ernst & Sohn verlag, Stahlbau, 75, Heft 5, pp. 349-356, Berlin, 2006 (Ioannis Vayas, **John Ermopoulos** and Pavlos Thanopoulos).
46. "Influence of the T-stub flexibility on ist strength", International Journal of Steel Structures (IJOSS), accepted for publication March 2010 (G. Stamatopoulos and **J. Ermopoulos**).
47. "Experimental and analytical investigation of steel column bases", Journal of Construct. Steel Research (JCSR), submitted for publication Jan. 2010 (G. Stamatopoulos and **J. Ermopoulos**).

Publications in Conferences

1. "Influence of the discontinuity towards the height, of multistory frames on their dynamic and seismic behaviour", Hellenic conference on tall buildings, Athens, pp. 1-8, Oct. 1975 (P. Carydis and **J. Ermopoulos**).
2. "Buckling analysis of simple frames with varying built-up sections", Colloquim on Mechanics HSTAM, Athens, pp. 60-76, Oct. 1983 (**J. Ermopoulos** and A. Kounadis).
3. "Remarks and conclusions from the earthquake of El Asnam", Conference on Earthquakes and Structures, Athens, Vol. I, pp. 426-437, Feb. 1984, (P. Carydis and **J. Ermopoulos**).
4. "Comparison between static and dynamic seismic action on a spherical steel dome", Conference on Earthquakes and Structures, Athens, Vol. II pp. 1122-1133, Feb. 1984 (**J. Ermopoulos** and G. Eliopoulos).
5. "Comparison between the dynamic seismic response and the equivalent horizontal static on a multistory building", Conference on Earthquakes and Structures, Athens, Vol. II, pp. 1165-1175, Feb. 1984 (P. Carydis and **J. Ermopoulos**).
6. "Elastic stability of concrete or steel frames, due to load eccentricity of columns", 7th Hellenic Concrete Conference, Patras, Vol. II, pp. 64-73, Oct. 1985 (**J. Ermopoulos**).
7. "Preestimation of the optimum height of concrete arch bridges", 7th Hellenic Concrete Conference, Patras, Vol. I, pp. 225-231, Oct. 1985 (**J. Ermopoulos** and S. Ioannidis).
8. "Slope-deflection method of tapeled bars under stepped axial load", 8th Hellenic Concrete Conference, Xanthi-Kavala, Vol. II, pp. 99-112, May 1987 (**J. Ermopoulos**).
9. "Elastic stability of tapered bars under stepped eccentric axial load", 8th Hellenic Concrete Conference, Xanti-Kavala, Vol. II, pp. 90-98, May 1987 (**J. Ermopoulos** and S. Ioannidis).
10. "Fundamental bending moments of laterally loaded beams subjected to axial tension load", 9th Hellenic Concrete Conference, Kalamata, Vol. I, pp. 184-191, Febr. 1990 (**J. Ermopoulos**).
11. "Statistical elaboration of the form of Greek buldings in relation with the irregularity problem", 9th Hellenic Concrete Conference, Kalamata, Vol. I, pp. 109-117, Feb. 1990, (J. Vayas, **J. Ermopoulos** and M. Chronopoulos)
12. "Optimum design of tapered built-up members", Eighth International Conference on Mathematical and Computer Modelling, Univ. of Maryland at College Park, Maryland, USA, 1-4 April 1991 (**J. Ch. Ermopoulos**, A. S. Vlahinos and Carl Baylor).
13. "Buckling analysis of trapezoidal thin plates", 1st National Conference on Steel Structures, Athens, June 1991 (A. S. Vlahinos, **J. Ch. Ermopoulos** and Yang-Cheng Wang).
14. "Buckling length of framed columns according to some main codes, and influence of the joints' semi-rigidity on this", 1st National Conference. on Steel Structures, Athens, June 1991 (**J. Ermopoulos**).
15. "A proposal of a system for the increase of the lateral stiffness in cable-stayed bridges", 10th Hellenic Concrete Conference, Rodos, Oct. 1991, Vol. I, pp. 151-160, (S. Ioannidis and **J. Ermopoulos**).
16. "Three dimensional buckling analysis of tapered built-up columns", First European Conference on Steel Strctures, pp. 109-116, Athens, May 1995 (Y. C. Wang, **J. Ch. Ermopoulos** and A. S. Vlahinos).
17. "Cyclic behaviour of composite beam-to-column bolted joints", First European Conference on Steel Structures, pp 205-210, Athens, May 1995 (**J. Ch. Ermopoulos**, I. Vayas, N. Petrovits, D. Sofianopoulos and Chr. Spanos).
18. "Moment-rotation curves for semirigid column bases", First European Conference on Steel Structures, pp. 211-217, Athens, May 1995 (**J. Ch. Ermopoulos** and G. N. Stamatopoulos).
19. "Behaviour of rectangular thin-walled steel frame joints", First European Conference on Steel Structures, pp. 255-262, Athens, May 1995 (G. T. Mihaltsos and **J. Ch. Ermopoulos**).
20. "A composite bridge over Aheloos river on Mesochora", First European Conference on Steel Structures, pp. 351-354, Athens, May 1995 (Ph. Karydakakis, G. I. Ioannidis, I. Vayas and **J. Ch. Ermopoulos**).

21. "The Challenge of Eurocodes", International Symposium on Eurocodes in Iasi, Romania, pp. 8-12, 29/5/-4/6/1995 (I. Vayas and **J. Ermopoulos**).
22. "Influence of support conditions on the behaviour of steel frames", Nordic Steel Construction Conference '95, Malmo, Sweden, June 1995, pp. 819-826 (**J. Ermopoulos**, G. Stamatopoulos and Graham Owens).
23. "Modelling of the non-linear response of a spherical shell", Second International Conference on Coupled Instabilities in Metal Structures, CIMS '96, pp. 491-498. Liege, Belgium, Sept. 1996 (G. Michaltsos, **J. Ermopoulos** and D. Sophianopoulos).
24. "Conception and optimization of structural forms by imitating nature", International Symposium on Conceptual Design of Structures, IASS, pp. 207-214, Stuttgart, Germany, Oct. 1996 (**J. Ermopoulos** and Ch. Gantes).
25. "Dynamic effects on continuous concrete bridges subjected to traffic loading", 4th Military Symposium on Fundamental Science, Chinese Military Academy (CMA), May 1997, Taiwan (Wen-Ping Lin, Yang-Cheng Wang and **John Ermopoulos**).
26. "Dynamic response of column bases", Mouchel Centenary Conference on Innovation in Civil & Structural Engineering, pp. 69-81, Cambridge, England, Aug. 1997 (G. Michaltsos and **J. Ermopoulos**).
27. "Shear deformation influence on the lateral buckling of thin-walled rotationally restrained steel members", VIIIth International Conference of Metal Structures, Timisoara, Romania, pp. 266-273, 25-28 Sept. 1997 (G. Michaltsos and **J. Ermopoulos**).
28. "Optimum design of cabled-stayed bridges using 3D buckling analysis", IASS International Colloquium on Computation of Shell & Spatial Structures (ICSS'97), Taipei, Taiwan, ROC, Nov. 1997 (Yang-Cheng Wang and **John Ermopoulos**).
29. "Analytical modelling of stress distribution under column base plates", Second World Conference on Constructional Steel Design, S. Sebastian, Spain, 11-13 May 1998 (**J. Ermopoulos** and G. Michaltsos).
30. "Stability analysis of bars with asymmetric open thin-walled cross-sections under eccentric axial thrust", Third National Conference on Steel Structures, Thessaloniki, Oct. 1998 (G. Ioannidis, **J. Ermopoulos** and A. Kounadis).
31. "Conceptual design and analysis of the structural steel systems for the new sport centre in Themi Thessaloniki", Third National Conference on Steel Structures, Thessaloniki, Oct. 1998 (M. Majowiecki, F. Zoulas and **J. Ermopoulos**).
32. "Mathematical modelling of column-bases under cyclic loading" EUROSTEEL'99, 2nd International Conference on steel structures, Praha, May 1999 (**J. Ermopoulos** and G. Stamatopoulos).
33. "The new sport centre in Themi Thessaloniki: Conceptual design of the structural steel system", IASS Conference, Madrid, Sept. 1999 (M. Majowiecki, F. Zoulas and **J. Ermopoulos**).
34. "The new sport centre in Themi Thessaloniki: Theoretical and experimental analysis of the structural steel system", IASS Conference, Madrid, Sept. 1999 (M. Majowiecki, F. Zoulas and **J. Ermopoulos**).
35. "Finite element modelling of column base-plates under monotonic loading", XVII CONGRESSO C.T.A., Costruire in acciaio: Struttura e Architettura, Napoli 3-5 Oct., 1999 (G. Stamatopoulos and **J. Ermopoulos**).
36. "Stability analysis of curved cable-stayed bridges", International Conference on Advances in Steel Structures (ICASS'99), 15-17 Dec. 1999, Hong Kong (Yang-Cheng Wang, Hung-Shan Shu and **John Ermopoulos**).
37. "Bridge deck analysis due to traffic loads according to EC1: Part 3, through tables and diagrams", 4th Intern. Conference on Bridges across the Danube 2001, Bratislava, Slovakia, 13-15 Sept. 2001 (**J. Ermopoulos** and G. Stamatopoulos).
38. "Earthquake damages and repair of structural steel elements", 2nd National Conference on Earthquake Engineering & Technical Seismology, Thessaloniki, pp. 71-79, Nov. 2001 (G. Ioannidis, **J. Ermopoulos** and I. Vayas).

39. "Repair and strengthening of concrete buildings using steel elements", 2nd National Conference on Earthquake Engineering & Technical Seismology, Thessaloniki, pp. 81-90, Nov. 2001 (**J. Ermopoulos**, I. Vayas and G. Ioannidis).
40. "The behaviour of steel structures during the Athens earthquake", 2nd National Conference on Earthquake Engineering & Technical Seismology, Thessaloniki, pp. 249-255, Nov. 2001 (I. Vayas, G. Ioannidis and **J. Ermopoulos**).
41. "Investigation of the behaviour of a compressed T-stub on concrete foundation", 4th National Conference of Steel Structures, Patras, pp. 91-98, May 2002 (G. Stamatopoulos and **J. Ermopoulos**).
42. "The influence of damages on the load carrying capacity of compressed members", 4th National Conference of Steel Structures, Patras, pp. 148-156, May 2002 (G. Ioannidis, I. Vayas and **J. Ermopoulos**).
43. "Design of a 50m stadium steel luminaire pylon", 4th National Conference of Steel Structures, Patras, pp. 619-627, May 2002 (**J. Ermopoulos**, G. Ioannidis and J. Raftoyiannis).
44. "Application of steel elements in retrofitting of damaged building", 12th European Conference on Earthquake Engineering, U.K., Sept. 2002, (I. Vayas, **J. Ermopoulos**, G. Ioannidis).
45. "Influence of initial imperfections on the stability of non-uniform steel members", 3rd European Conference on Steel Structures, Vol. I, pp. 241-249, Coimbra, Portugal, 19-20 Sept. 2002 (**J. Ermopoulos** and J. Raftoyiannis).
46. "Bridges: Past, Present and Future", International Colloquium "Stability and Ductility of Steel Structures", pp. 533-542, Budapest, Hungary, 26-28 Sept. 2002 (**J. Ermopoulos**).
47. "Repair and strengthening of concrete buildings damaged by earthquakes using steel elements", International Colloquium "Stability and Ductility of Steel Structures", pp. 711-718, Budapest, Hungary, 26-28 Sept. 2002 (**J. Ermopoulos**, G. Ioannides and I. Vayas).
48. "Condition assessment of a 19th century steel-truss railway bridge", 10th International Conference on Structural Faults and Repair, London, UK, Jul. 2003 (C. Spyarakos, J. Raftoyiannis and **J. Ermopoulos**).
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