

Professor Charalampos Baniotopoulos Dr.-Ing.

Chair of Sustainable Energy Systems
Director of Resilience Centre

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About

Dr.-Ing. C. Baniotopoulos is Professor of Sustainable Energy Systems. His academic activity concerns lecturing in graduate, post-graduate and PhD curricula on steel and aluminium structures, wind energy structures and sustainable design topics. He performed research on the same topics including robustness of metal structures, as well as administration at department, faculty or university level and academic or research oriented national and international organizations. His previous activity in consultancy as structural civil engineer concerned steel, aluminium and glass structures projects including wind energy structures, sustainable design and LC Analyses.

Qualifications

- 1964-70: Primary school, 40th Primary School of Thessaloniki «Ioannidion»
- 1970-76: Secondary studies at the Model School (Gymnasium and Lyceum) of the Aristotle University of Thessaloniki 1.7.1976 Graduate – Grade 19& 4/13 (97%)
- 1976-1981: Studies at the Department of Civil Engineering (5 years integrated curriculum), Aristotle University of Thessaloniki (AUTH), Greece. □29.12.1981 Diploma (MSc) (5 years integrated curriculum) in Civil Engineering, Department of Civil Engineering, Aristotle University of Thessaloniki, Greece – Grade 9 «Excellent» (90%)
- During the undergraduate studies, stays abroad for practice (IAESTE): □Gotland, Sweden (29.7.-1.9.78) □Szczecin, Poland (1.8.-30.8.80) □Gdansk, Poland (7.8.-31.8.81)
- Since 1981: Chartered Civil Engineer, Technical Chamber of Greece
- 1981-1985: Doctoral studies at the Department of Civil Engineering, Aristotle University of Thessaloniki, Aristotle University of Thessaloniki, Greece. 10.12.1985 Ph.D. in Civil Engineering, Department of Civil Engineering, Aristotle University of Thessaloniki, Greece – Grade 10 «Excellent unanimously» (100%)
- 1982-88: Research Associate, Dept. of Civil Engineering AUTH
- 21.9.85-21.8.87: Military service (Greek Air Forces)
- 1987-88: Alexander von Humboldt Research Fellowship, RWTH (Technical University of Aachen) Aachen, Germany
- 1988-91: Lecturer, Dept. of Civil Engineering AUTH
- 1991-96: Assistant Professor, Dept. of Civil Engineering AUTH
- 1993-94: Research Fellowship, Joint Research Center of the EU-Ispra
- 1996-2000: Associate Professor, Dept. of Civil Engineering AUTH
- 2000-to date: Professor, Inst. of Steel Structures, Dept. of Civil Engineering AUTH
- 2004-2012: Director, Inst. of Steel Structures, Dept. of Civil Engineering AUTH

Positions held

- Professor at the Structural Engineering Division, Department of Civil Engineering, Aristotle University of Thessaloniki (since 1999 to date)
- Chairman, Dept. of Civil Engineering, Aristotle University of Thessaloniki (2009-2011)
- Deputy Chairman, Dept. of Civil Engineering, Aristotle University of Thessaloniki (2007-2009)
- Director of the Institute of Metal Structures, Department of Civil Engineering, Aristotle University of Thessaloniki (since 2004-2010, re-elected 2010-2012)
- Director of the Division of Structural Engineering, Department of Civil Engineering, Aristotle University of Thessaloniki (2004-05, re-elected 2005-06)
- Member of the Senate of the Aristotle University of Thessaloniki (2007-to date)
- Member of the General Assembly of the Structural Engineering Division, Dept. of Civil Engineering AUTH (1991 to date).
- Member of the AUTH Civil Engineering Department General Assembly (1991 to date)
- Chairman of the Hellenic Scientific Society of Wind Engineering and Aerodynamics (2005)
- Member of the Administrative Council of the AHEPA University Hospital (2008-2010)
- Member of the Administrative Council of the Greek State Scholarships Foundations (IKY) (2010)
- National Delegate in CEN-TC250-SC9 (EUROCODE 9: ALUMINIUM STRUCTURES) (1998-to date)
- Chairman of the National (Greek) Committee for Eurocode 9; ALUMINIUM STRUCTURES (1998 to date)
- Member to the TEMPUS “Structural connections” project –Production of educational material for engineers (2000-2004)

- Member of the Committee for International Relations of the Faculty of Engineering AUTH (2006-2011)
- Member of the Research Council of the Faculty of Engineering AUTH (2006-2010)
- Member (chairman) of the IKY Committee for CERN (2011)

Chairman

- Hellenic Society of Wind Engineering and Aerodynamics (HSWE) (2005-to date)

Member

- Technical Chamber of Greece (TEE) (1981 to date)
- Greek Society of Civil Engineers (1982 to date)
- American Society of Civil Engineers (ASCE) (1983 to date)
- Gesellschaft fuer Angewandte Mathematik und Mechanik (GAMM) (1984 to date)
- International Society for the Interaction between Mathematics and Mechanics (ISIMM) (1989 to date)
- Greek Society for the Research on Metallic Structures (GSRMS) (1993 to date)
- Greek Society on Computational Mechanics (GSCM) (1991 to date)
- European Community on Computational Methods in Applied Sciences (ECCOMAS) (1994 to date)
- International Society for Structural and Multidisciplinary Optimization (IISMO) (1994 to date)
- European Mechanics Society (EUROMECH) (1994 to date)
- European Association for Structural Dynamics (EASD) (1996 to date)
- Greek Society of Theoretical and Applied Mechanics (GSTAM) (1997 to date)
- Hellenic Society of Earthquake Engineering (ETAM) (2009)

Biography

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- 2000-to date: Professor, Inst. of Steel Structures, Dept. of Civil Engineering AUTH
- 2004-2012: Director, Inst. of Steel Structures, Dept. of Civil Engineering AUTH
- 2011: Alexander von Humboldt Research Fellowship, Leibniz Universität Hannover (LUH), Hanover, Germany.

Positions held

- Professor at the Structural Engineering Division, Department of Civil Engineering, Aristotle University of Thessaloniki (2000-2012)
- Chairman, Dept. of Civil Engineering, Aristotle University of Thessaloniki (2009-2011)
- Deputy Chairman, Dept. of Civil Engineering, Aristotle University of Thessaloniki (2007-2009)
- Director of the Institute of Metal Structures, Department of Civil Engineering, Aristotle University of Thessaloniki (since 2004-2012)
- Director of the Division of Structural Engineering, Department of Civil Engineering, Aristotle University of Thessaloniki (2004-05, re-elected 2005-06)
- Member of the Senate of the Aristotle University of Thessaloniki (2007-2011)
- Member of the General Assembly of the Structural Engineering Division, Dept. of Civil Engineering AUTH (1991-2012).
- Member of the AUTH Civil Engineering Department General Assembly (1991-2011)
- Chairman of the Hellenic Scientific Society of Wind Engineering and Aerodynamics (2005 to date)
- Member of the Steel Advisory Group of the Research Fund for Coal and Steel (RFCS) of the European Commission of the European Union (since 2008-2014)
- Member of the Administrative Council of the AHEPA University Hospital (2008-2010)
- Member of the Administrative Council of the Greek State Scholarships Foundations (IKY) (2010-2011)
- Member of the Administrative Council of the International Centre for Mechanical Sciences (CISM) (1998-2006)
- Member of the Scientific Council of the International Centre for Mechanical Sciences (CISM) (1998-2006)
- National Delegate in CEN-TC250-SC9 (EUROCODE 9: ALUMINIUM STRUCTURES) (1998-to date)
- Chairman of the National (Greek) Committee for Eurocode 9; ALUMINIUM STRUCTURES (1998 to date)
- Member of the Management Committee and WG4 of the COST C1 "Semirigid connections in Civil Engineering structures" (1994-1998)
- Member of the Management Committee of the COST C12 "Improving buildings quality by new technologies" (1999-2004)

- Member of the Management Committee of the COST C14 "Impact of wind and storm in built environment" (1999-2004)
- Member of the Management Committee of the COST C26 "Urban habitat constructions under catastrophic events" (2006-2010)
- Rapporteur and evaluator of the COST C25 "Sustainability of constructions" (2006-2011).
- Member of the Management Committee of the COST TU0905 "Structural Glass" (2010-to date)
- Member of the Technical Committee of the Domain COST C "Urban Development" (2004-2010)
- Member to the TEMPUS "Structural connections" project –Production of educational material for engineers (2000-2004)
- Expert for the EU Framework Programme 6 & 7 (FP6 & FP7) and ERASMUS MUNDUS evaluator (2002 to date)Member of the Committee for International Relations of the Faculty of Engineering AUTH (2006-2011)
- Delegate of AUTH at the CESAER (Conference of European Schools for Advanced Engineering Education and Research) (since 2000 – to date)
- Member of the Research Council of the Faculty of Engineering AUTH (2006-2011)

Chairman

- of the Hellenic Society of Wind Engineering and Aerodynamics (HSWE) (2005-to date)

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- Greek Society on Computational Mechanics (GSCM) (1991 to date)
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- International Society for Structural and Multidisciplinary Optimization (IISMO) (1994 to date)
- European Mechanics Society (EUROMECH) (1994 to date)
- European Association for Structural Dynamics (EASD) (1996 to date)
- Greek Society of Theoretical and Applied Mechanics (GSTAM) (1997 to date)
- Hellenic Society of Earthquake Engineering (ETAM) (2009 to date)

Teaching

Invited lectures (indicative list)

- Charles University of Prague (Prague, Czech Republic) (1984)
- University of Bratislava (Bratislava, Slovakia) (1984)
- Technical University of Linköping (Linköping, Sweden) (1989)
- Technical University of Warsaw (Warsaw, Poland) (1990)
- University of Florence (Florence, Italy) (1993)
- Politecnico di Milano (Milano, Italy) (1993)
- Helsinki Technical University (Helsinki, Finland) (1996)
- Technical Chamber of Cyprus (Limassol, Cyprus) (1996)
- Technical University of Budapest (Budapest, Hungary)(1997)
- Intensive courses ICP 1043/06-1998 and ICP 1086/06-1999 (University of Florence, Italy)
- Jordan University of Science and Technology (Irbid, Jordan) (2000)
- Technical University of Bratislava (Bratislava, Slovakia) (2002)
- Technical University of Budapest (Budapest, Hungary) (2003)
- Jordan University of Science & Technology-JUST (Irbid, Jordan) (2006)
- Bogacizi University (Istanbul, Turkey) (2007)
- University "Politecnica" of Timisoara (Timisoara, Romania) (2007)
- Concordia University (Montreal, Canada) (2007)
- Jordan University of Science & Technology-JUST (Irbid, Jordan) (2008)
- Al-Sharja University (Al-Sharja, United Arab Emirates) (2008)
- Universidad Nacional Autonoma de Mexico (Mexico city, Mexico) (2008)
- Charles University (Prague, Czech Republic) (2009)
- Jordan University of Science & Technology-JUST (Irbid, Jordan) (2009)
- Universidad Nacional Autonoma de Mexico (Mexico city, Mexico) (2010)
- Universitaet der Bundeswehr Muenchen (Munich) (2011)
- University of Marrakesch, Marroco (2012)
- Jordan University of Science & Technology-JUST (Irbid, Jordan) (2011)

Teaching programme

- Statics and Mechanics
- Advanced Structures and Design

- Sustainable structures and wind energy structures design
- Civil Engineering research projects
- Management and research projects

Postgraduate supervision

PhD Theses

- **D. Kaziolas**, «Investigation of the behaviour of adhesive connections of composite structures in the framework of the Nonsmooth Mechanics methods», AUTH, October 2000.
- **M. Kontoleon**, «Study of metal connections with adhesives exhibiting softening behaviour», AUTH, October 2000.
- **Th. Nikolaidis**, «Propositions for the formation and application of displacement control systems to large span structures using cables», AUTH, June 2003.
- **N. Nanoussis**, «Analysis of metal structures with semirigid connections», AUTH, October 2005.
- **F. Preftitsi**, «Investigation of the mechanical behaviour of laminated aluminium profiles by means of computational methods», AUTH, June 2005.
- **E. Efthymiou**, «Development of the yield lines in bolted aluminium connections under tension», AUTH, March 2005.
- **Ch. Efstathiadis**, «Application of the Theory of Artificial Neural Networks to the definition of damage in aluminium curtain-wall systems», AUTH, May 2008.
- **K. Chatzinikos**, «Development of a Methodology for the Assessment of the Reliable Structural Response of Glass-Aluminium Curtain-Walls», AUTH, May 2008.
- **S. Gerasimidis**, "Alternate Load Path Methods for Disproportionate Collapse Analysis of Steel Structures via Direct Methods of Plasticity", AUTH, June 2011.
- **I. Zygomalas**, «Sustainable Metal Buildings, LCA and LCI», AUTH, December 2011.

Research

Research projects list (indicative):

Project name	Funding source
Frames with semirigid connections. Software development for static and dynamic analyses.	Greek Secretariat for Research and Technology
Data and images condensation in FEM calculations by means of the fractal codifications	Greek Secretariat for Research and Technology
Prediction of the critical parameters affecting the structural response of welded elements in aluminium structures	Greek Secretariat for Research and Technology
Lab testing on the strength of wooden beams	XYLODOMI AVEE (Industry)
Energy transmission steel column collapse	Giatagana C. & C.
Development of a mechanical strength standard for aluminium structural products and studies for special structural installations	ALUM NET A.E.- GreeK Aluminium Construction Companies Consortium
Measurements of the strength of pinned aluminium bars	DIMANT A.B.E.E. (Industry)
Analysis and design and manufacturing recommendations of aluminum curtain-walls with improved strength properties according to Eurocode 9	Greek Secretariat for Research and Technology
Structural Glazing Systems in Civil Engineering Applications	Greek Secretariat for Research and Technology
Research, development and assessment of an integrated structural aluminium system of large dimensions with incorporated photovoltaic elements of modern technology	Greek Secretariat for Research and Technology
Assessment, ranking and reduction of the national telecommunication network	Greek Secretariat for Research and Technology
Technical support on production subjects of the network of Greek aluminium fabricators ALUMNET S.A.	ALUM NET A.E.- Greek Aluminium Construction Companies Consortium
Study of the prototypes of the quality mark RAL "PROTO-RAL"	ALUM NET A.E.- Greek Aluminium Construction Companies Consortium
Continuing education in structural connections (CESTRUOCO)	EUROPEAN COMMISSION - EDUCATION AND CULTURE DG GENERAL-TEMPUS
Aluminium curtain-wall system:Reliability control and development of specific applications(SYA)	Aluminium Extrusion Industry ELVIAL SA
Research for the development of production of energy-producer structural elements	ALUMYL MYLONAS S.A.
Manufacturing technology transfer and assessment of prototype aluminum structural elements	ALUMYL MYLONAS S.A.
Delamination measurements in connection angles in metal structures (GONIES)	ALUMYL MYLONAS S.A.

Research, development and assessment of an integrated aluminum system of large dimensions with incorporated photovoltaic elements of modern technology

ALUMYL MYLONAS S.A.

Development of a methodology for the assessment of the structural reliability of aluminium curtain-walls in earthquake resistant structures.

DOMICAL S.A. (Industry)

Sustainable development of historical buildings through their rehabilitation by means of innovative technologies

CYPRUS Secretariat of Research & Technology Municipality of Limassol

High-strength steel tower for wind turbines HISTWIN

EUROPEAN COMMISSION

Earthquake protection and structural system rehabilitation of R/C structures by using
Greek Secretariat for Research and Technology
Software development for use

Greek Secretariat for Research and Technology

Strengthening/rehabilitation of historical building in seismic areas using reversible mixed technologies

Greek Secretariat for Research and Technology

Dissemination of Structural Fire Safety

EUROPEAN COMMISSION

Advanced Structural Analyses for the Telecommunication Organization of Greece Masts

Greek Telecommunications Organisation S.A.

Anchor strength for PhV

PROJECTS DYNAMIC S.A

PhotoValue dissemination

AUTH Research Committee

Study of the strength and serviceability of aluminum frames for PhV systems

ALUMYL MYLONAS S.A. (industry)

MACS+ Fire Resistance Assessment of partially Protected composite Floor Valorisation

EUROPEAN COMMISSION

High-strength steel tower for wind turbines HISTWIN 2

EUROPEAN COMMISSION

SB_Steel Sustainable Steel Building

EUROPEAN COMMISSION

Publications

Books

1. C.C.Baniotopoulos, C.Tsalikis, O.Vassart & B.Zhao (2013), Steel Structures in Fire. Design of a Composite Plate, Ziti Publ.Co, pages 420 (in Greek).
2. C.C.Baniotopoulos, C. Borri (U Florence) & T. Stathopoulos (Concordia Univ. Montreal) (eds) (2011), Environmental Wind Engineering and Design of Wind Energy Structures, Springer Wien, New York, pages 358.
3. C.C.Baniotopoulos & Th. Nikolaidis (2012), Steel Structures Design Examples by Eurocode 3, Ziti Publ. Co, pages 510 (in Greek)
4. C.C.Baniotopoulos (2009), Steel Structures. Design Principles according to the EC3 Framework, Ziti Publ. Co, pages 410 (in Greek).
5. C.C.Baniotopoulos & T.Stathopoulos (Concordia Univ. Montreal) (eds) (2007), Wind Effects on Buildings and Design of Wind-Sensitive Structures, Springer Wien, New York, pages 228.
6. C.C.Baniotopoulos (2006) (ed.), Nonsmooth/Nonconvex Mechanics with Applications in Engineering, Vol. II, Ziti Editions, Thessaloniki, pages 560.
7. C.C.Baniotopoulos (2003) (ed.), Connections in Metal Structures (in Greek), Ziti Editions, Thessaloniki, pages 190 (in Greek).
8. C.C.Baniotopoulos (2002) (ed.), Nonsmooth/Nonconvex Mechanics with Applications in Engineering, Ziti Editions, Thessaloniki, pages 483.
9. C.C.Baniotopoulos & F. Wald (Czech TU Prague) (2000) (Eds), The Paramount Role of Joints into the Reliable Response of Structures. From the Classic Pinned and Rigid Joints to the Notion of Semi-rigidity, Kluwer, Dordrecht, pages 480.
10. M. Ivanyi (TU Budapest) & C.C. Baniotopoulos (2000) (Eds), Semi-rigid Joints in Structural Steelwork, Springer Wien, New York, pages 350.
11. K.Thomopoulos, C.C.Baniotopoulos & A.V.Avdelas (1999) (Eds), Proceedings III National Conference on Steel Structures, MSRS, Thessaloniki, pages 465.
12. C.C.Baniotopoulos, Computation of structures for "complete" constitutive laws of their structural elements. Doctoral Dissertation, AUTH, App. 27, Vol. T', Thessaloniki 1985.

In scientific journals (Peer Review System)

1. Panagiotopoulos, P.D., Baniotopoulos, C.C. & Avdelas, A.V. (1984), Certain Propositions on the Activation of Yield Modes in Elastoplasticity and their Applications to Deterministic and Stochastic Problems, ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK 64(11) 491-501.
2. Panagiotopoulos, P.D. & Baniotopoulos, C.C. (1984), A Hemivariational Inequality and Substationarity Approach to the Interface Problem. Theory and Prospects of Applications, Engineering Analysis 1 (1) 20-31.
3. Baniotopoulos, C.C. & Panagiotopoulos, P.D. (1985), Study of a Discrete Hemivariational Inequality arising in Multivalued Structural Analysis, ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK 65 (4) T:120-122.
4. Panagiotopoulos, P.D. & Baniotopoulos C.C. (1986), Hemivariational Inequalities and Substationarity Principles in Structural Mechanics and Applications, JOURNAL OF STRUCTURAL MECHANICS 14(1) 77-103.
5. Karakostas, C.Z., Baniotopoulos, C.C. & Panagiotopoulos, P.D. (1986), Sea Bed-Structure Interaction for Submarine Cables, COMPUTER & STRUCTURES 22 (3) 213-224.

6. Stavroulakis, G.E., Baniotopoulos, C.C. & Panagiotopoulos, P.D. (1986), Sea Bed-Structure Interaction in the Presence of Frictional Effects for Submarine Pipelines, *COMPUTERS & STRUCTURES* 24 (5) 767-775.
7. Baniotopoulos, C.C. & Panagiotopoulos, P.D. (1989), A Contribution to the Analysis of Composite Material Structures by Means of the Theory of Hemivariational Inequalities. *ZEITSCHRIFT FUER ANGEWANDTE MATHEMATIK UND MECHANIK* 69 (5) T:489-491.
8. Baniotopoulos, C.C., (1989), Optimal Control of Submarine Cables in Unilateral Contact with the Sea-Bed Profile, *COMPUTERS & STRUCTURES* 33 (2) 601-608.
9. Baniotopoulos, C.C. & Panagiotopoulos, P.D. (1990). A Hemivariational Inequality Approach to the Rock Interface Problem, *ENGINEERING FRACTURE MECHANICS* 35 (1) 399-407.
10. Baniotopoulos, C.C. (1990), Sea Bed-Structure Interaction for Optimally Controlled Underwater Cables, *ZEITSCHRIFT FUER ANGEWANDTE MATHEMATIK UND MECHANIK* 70 (4) T:270-272.
11. Baniotopoulos, C.C. (1991), A Contribution to the Analysis of the Corner Cracking Problem in Masonry Veneer Walls by Means of the Theory of Hemivariational Inequalities, *BULGARIAN JOURNAL OF THEORETICAL & APPLIED MECHANICS WWII* (2) 91-101.
12. Baniotopoulos, C.C. (1991), Sensitivity Analysis Results on the Sea Bed-Underwater Cable Interaction Problem, *ZEITSCHRIFT FUER ANGEWANDTE MATHEMATIK UND MECHANIK* 71 (6) T:710-712.
13. Baniotopoulos, C.C. (1991), A Contribution to the Sensitivity Analysis of the Sea Bed-Structure Interaction Problem for Underwater Pipelines, *COMPUTERS & STRUCTURES* 40 (6) 1421-1427.
14. Baniotopoulos, C.C. & Abdalla, K.M. (1993), Steel Column-to-Column Connections Under Combined Load: A Quadratic Programming Approach, *COMPUTERS & STRUCTURES* 46 (1) 13-20.
15. Haslinger, J., Baniotopoulos, C.C. & Panagiotopoulos, P.D. (1993), A Boundary Multivalued Integral «Equation» Approach to the Semipermeability Problem, *APPLICATIONS OF MATHEMATICS* 38 (1) 39-60.
16. Avdelas, A.V., Baniotopoulos, C.C. & Panagiotopoulos, P.D. (1993), Numerical Treatment of the Sea Bed-Long Underwater Cable Dynamic Interaction Problem by a Upper Bounding Algorithm, *COMPUTERS & STRUCTURES* 48 (6) 1033-1039.
17. Baniotopoulos, C.C. (1994), On the Discrete Optimal Control Problem of Composite Wall Structures, Technical Note, *COMPUTERS & STRUCTURES* 53 (5) 1243-1245.
18. Baniotopoulos, C.C. (1994), On the Numerical Assessment of the Separation of the Separation Zones in Semirigid Column Base Plate Connections, *STRUCTURAL ENGINEERING & MECHANICS - AN INTERNATIONAL JOURNAL* 2 (3) 1-15.
19. Baniotopoulos, C.C., Abdalla, K.M. & Panagiotopoulos, P.D. (1994), A Variational Inequality and Quadratic Programming Approach to the Separation Problem of Steel Bolted Brackets, *COMPUTERS & STRUCTURES* 53 (10) 983-991.
20. Mistakidis, E.S., Baniotopoulos, C.C. & Panagiotopoulos, P.D. (1994), On the Numerical Treatment of the Delamination Problem in Laminated Composites under Cleavage Loading, *COMPOSITE STRUCTURES* 30 453-466.
21. Baniotopoulos, C.C. (1995), On the Separation Process in Bolted Steel Splice Plates, *JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH* 32 15-35.
22. Baniotopoulos, C.C. & Abdalla, K.M., (1995), Sensitivity Analysis Results on the Separation Problem of Bolted Steel Column-to Column Connections, *INTERNATIONAL JOURNAL OF SOLIDS & STRUCTURES* 32 (2) 251-265.
23. Baniotopoulos, C.C. (1995), Optimal Control of Above-ground Pipelines under Dynamic Excitations, *INTERNATIONAL JOURNAL OF PRESSURE VESSEL & PIPING* 63 211-222.
24. Baniotopoulos, C.C. (1995), A Quadratic Programming Approach to the Dynamic Pipe-Saddle Interaction Problem, *ZEITSCHRIFT FUER ANGEWANDTE MATHEMATIK UND MECHANIK* 76 55: 27-28.
25. Baniotopoulos, C.C. & Panagiotopoulos, P. D. (1995) Stress Distribution along Above-Ground Pipelines on a Frictional Supporting System, *COMPUTERS & STRUCTURES* 64 (1-4) 783-789.
26. Baniotopoulos, C.C. (1995), Saddle-Supported Pipelines: Influence of Unilateral Support and Thickness to the Stress State, *INTERNATIONAL JOURNAL OF PRESSURE VESSELS & PIPING* 67 55-64.
27. Al-Abed, M.R, Baniotopoulos, C.C. & Bisbos C.D. (1996), Effect of Liquid Filling in Saddle-Supported Pipelines, *INTERNATIONAL JOURNAL OF PRESSURE VESSELS & PIPING* 68 219-218.
28. Mistakidis, E.S., Baniotopoulos, C.C., Bisbos C.D. & Panagiotopoulos P.D. (1997), Steel T-Stub Connections under Static Loading: An Effective 2-D Numerical Model, *JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH-AN INTERNATIONAL JOURNAL* 44 (1-2) 51-67.
29. Al Abed, M.R., Baniotopoulos, C.C., Bisbos, C.D. & Panagiotopoulos, P.D. (1997), Saddle-Supported Pipelines: Computation of the Pressure Distribution on the Pipe-Saddle Interface, *JOURNAL OF CONSTRUCTIONAL STEEL RESEARCH-AN INTERNATIONAL JOURNAL* 44 (1-2) 159-178.
30. Mistakidis, E.S., Baniotopoulos, C.C. & Panagiotopoulos, P.D. (1998), An Effective Two-Dimensional Numerical Model for the Analysis of a Class of Steel Connections, *COMPUTATIONAL MECHANICS* 21 363-371.
31. Baniotopoulos, C.C. (1998), Analysis of Above-Ground Pipelines on Unilateral Supports: A Neural Network Approach, *INTERNATIONAL JOURNAL OF PRESSURE VESSELS & PIPING* 75, 43-48.
32. Kontoleon, M., Mistakidis, E.S., Baniotopoulos, C.C. & Panagiotopoulos, P.D. (1999), Parametric Analysis of the Structural Response of Steel Base Plate Connections, *COMPUTERS & STRUCTURES* 71, 87-103.
33. Baniotopoulos, C.C. & Preftitsi, F. (1999), Influence of the Design Parameters on the Stress State of Saddle-Supported Pipelines: An Artificial Neural Network Approach, *INTERNATIONAL JOURNAL OF PRESSURE VESSELS & PIPING* 76, 401-409.
34. Alexiou, D., Baniotopoulos, C.C. & Tsangas, G. (1999), On the Minimal Area of Membranes : Application of the Theory of Rectilinear Congruence C., *JOURNAL OF MATHEMATICS & COMPUTER SCIENCES* 13 (1), 61-71.
35. Kaziolas, D. & Baniotopoulos, C.C. (2000), Structural Failure Study of Laminated Composites : The Bundle Optimization approach, *COMPOSITE STRUCTURES* 49, 173-182.
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