EUROPEAN CURRICULUM VITAE FORMAT

PERSONAL INFORMATION

Surname(s) / First name(s)	**Brnić / Josip**
Address(es)	Vukovarska 58, 51000 Rijeka
Telephone(s)	++385 51 651 491
Fax(es)	++385 51 651 490
E-mail(s), Web address(s)	brnic@riteh.hr ; http://www.riteh.uniri.hr/osoba/josip-brnic
Nationality(-ies)	Croatian
Date of birth	31.03.1951.
Identification number from Records of Scientific Workers	**148822**

WORK EXPERIENCE

• Dates (from – to)	October 2016. – until today
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	Science and Education
Occupation or position held	• former Rector of the University of Rijeka (1999, 2000) • member of National Council for Science of the Republic of Croatia (2005 - 2013) • president of Scientific Council for Technical Sciences of the Republic of Croatia(2005 -2017) • vicerector of the University of Rijeka (1998) • former dean of the Faculty of Engineering, University of Rijeka (1994-96; 1996 - 98) • formar vicedean of the Faculty of Engineering, University of Rijeka (1993-1994) • former head of Department for Engineering Mechanics, Faculty of Engineering, University of Rijeka (2003 - September 2016) • member of the Council for Science of the University of Rijeka • head of Laboratory for structural strength testing, Faculty of Engineering, University of Rijeka • former President of International relationship committee, Faculty of Engineering, University of Rijeka • associate member of Croatian Academy of Sciences and Arts, from 1997. • full member of Croatian Academy of Engineering, 2010. • associate member of Internationa Academy of Sciences, Moscow, 2013. • vicepresident of Croatian Society of Mechanics (1991-1994) • manager of graduate studies of mechanical engineering (1991-1993) • president of the regional branch of Croatian Society of Mechanics, Rijeka (1991-1994, 1998-2000)
Main activities and responsibilities	scientific researches, projects and publishing of scientific papers, lectures and professional work.

• Dates (from – to)	**2002**. – September 2016.
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	- **head of Department of Engineering Mechanics** - head of Laboratory for structural strength testing - professor with tenure (Technical Sciences: Mechanical Engineering, Fundamental Technical Sciences), Professor in Naval Architecture
Main activities and responsibilities	scientific researches, projects and publishing of scientific papers, lectures and professional work.

• Dates (from – to)	**2012.** – until today
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	**-** head of Department of Engineering Mechanics - head of Laboratory for structural strength testing - professor with tenure - **Consulting Professor at Harbin Institute of Technology**
Main activities and responsibilities	scientific researches, projects and publishing of scientific papers, lectures and professional work.

• Dates (from – to)	**2011.** - until today
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	**-** head of Department of Engineering Mechanics - head of Laboratory for structural strength testing - professor with tenure - **Honorary Professor at Henan Polytechnic University**
Main activities and responsibilities	scientific researches, projects and publishing of scientific papers, lectures and professional work.

• Dates (from – to)	**2010.** - until today
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	**-** head of Department of Engineering Mechanics - head of Laboratory for structural strength testing - professor with tenure **- full member of Croatian Academy of Engineering** **- member of the Council for science of the University of Rijeka**
Main activities and responsibilities	scientific researches, projects and publishing of scientific papers, lectures and professional work.

• Dates (from – to)	**2005. -** 2008.
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	**- member of National Council for Science (2005 – 09; 2009- 13)** **- president of Scientific Council for Technical Sciences of the Republic of Croatia (2005-2009; 2009-13; 2013-17)** **-** associate member of Croatian Academy of Sciences and Arts, since 1997. - head of Department of Engineering Mechanics - head of Laboratory for structural strength testing
Main activities and responsibilities	scientific researches, projects and publishing of scientific papers, lectures and professional work.

• Dates (from – to)	**1996. -** 2000
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	**- professor (**Technical sciences**:** Mechanical Engineering, Fundamental Technical Sciences, Naval Architecture) - head of Laboratory for structural strength testing
Main activities and responsibilities	scientific researches, projects and publishing of scientific papers, lectures and professional work.

• Dates (from – to)	**1999.-**2000
Name and address of employer	University of Rijeka; (Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000) Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	**- rector of the University of Rijeka** **-** member of the Senat of the University of Rijeka - head of Laboratory for structural strength testing

Main activities and responsibilities	managing

• Dates (from – to)	**2000.**
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	**- professor with tenure (**Technical sciences**:** Mechanical Engineering, Fundamental Technical Sciences) - head of Laboratory for structural strength testing
Main activities and responsibilities	scientific researches, projects and publishing of scientific papers, lectures and professional work.

• Dates (from – to)	**1998**. – 1999.
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	**- vicerector of the University of Rijeka for science and international cooperation** **-** member of the Senat of the University of Rijeka - head of Laboratory for structural strength testing
Main activities and responsibilities	scientific researches, projects and publishing of scientific papers, lectures and professional work.

• Dates (from – to)	**2000.**
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	**- professor with tenure (**Technical sciences**:** Mechanical Engineering, Fundamental Technical Sciences) - head of Laboratory for structural strength testing
Main activities and responsibilities	scientific researches, projects and publishing of scientific papers, lectures and professional work.

• Dates (from – to)	**1994.-** 1998
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	**- dean of the Faculty of Engineering (1994-96; 1996-98)** - member of the Senat of University - head of Laboratory for structural strength testing
Main activities and responsibilities	managing

• Dates (from – to)	**1993.-** 1994
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	**- vicedean of the Faculty of Engineering** - head of Laboratory for structural strength testing
Main activities and responsibilities	scientific researches, projects and publishing of scientific papers, lectures and professional work.

• Dates (from – to)	**1993.-** 1996
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	**- associate professor** - head of Laboratory for structural strength testing
Main activities and responsibilities	scientific researches, projects and publishing of scientific papers, lectures and professional work.

• Dates (from – to)	**1989.-** 1993
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia (**1990 year**)
Type of business or sector	science and education

Occupation or position held	**- assistant professor** - head of Laboratory for structural strength testing
Main activities and responsibilities	scientific researches, projects and publishing of scientific papers, lectures and professional work.

• Dates (from – to)	1978.**-** 1988.
Name and address of employer	RO Brodoprojekt Rijeka (design organization); Faculty of Engineering, University of Rijeka (part time), Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	design and analysis of submarine structure and other structures, exercises
Occupation or position held	- designer, assistant
Main activities and responsibilities	structural analysis and design, exercises

• Dates (from – to)	1976.**-** 1978.
Name and address of employer	RO Brodoprojekt Rijeka (design organization
Type of business or sector	design and analysis of submarine structure and other structures
Occupation or position held	- designer
Main activities and responsibilities	structural analysis and design

EDUCATION

Date	**1988.** (1983. – 1988.)
Place of education	Rijeka
Name and type of organisation providing education	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Title or qualification awarded	**D. Sc.** (Doctor of technical sciences); structural engineering

Date	**1983.**
Place of education	Ljubljana, Slovenia
Name and type of organisation providing education	Faculty of Mechanical Engineering, University of Ljubljana, Slovenia
Title or qualification awarded	**M. Sc**. (Master of technical sciences); structural engineering

Date	**January 1976.** (October 1970. – January 1976)
Place of education	Rijeka
Name and type of organisation providing education	Faculty of Engineering, University of Rijeka
Title or qualification awarded	**Univ. Dipl. Ing**. ; mechanical engineering

TRAINING

Year	2012.
Place of training	Harbin, China
Name and type of organisation providing training	Harbin Institute of Technology
Principal subjects/Occupational skills covered	Finite Element Method, Creep, Fatigue

Year	2011.
Place of training	Jiaozuo, China
Name and type of organisation providing training	Henan Polytechic University
Principal subjects/Occupational skills covered	Finite Element Structural Analysis

Year	2008.
Place of training	Ulm, Germany

Name and type of organisation providing training	Zwick/Roell
Principal subjects/Occupational skills covered	Experimental Mechanics

Year	2004.
Place of training	Ulm, Germany
Name and type of organisation providing training	Zwick/Roell
Principal subjects/Occupational skills covered	Experimental Mechanics

Year	2002.
Place of training	Vienna, Austria
Name and type of organisation providing training	Vienna University of Technology
Principal subjects/Occupational skills covered	Structural Optimization

Year	2002.
Place of training	Vienna, Austria
Name and type of organisation providing training	Technische Universität Wien
Principal subjects/Occupational skills covered	Structural optimization

Year	1996.
Place of training	Brno, Chech Republic
Name and type of organisation providing training	Faculty of Mechanical Engineering
Principal subjects/Occupational skills covered	Structural Analysis

Year	1995.
Place of training	Brno, Chech Republic
Name and type of organisation providing training	Brno, Chech Republic
Principal subjects/Occupational skills covered	Structural Analysis

Year	1993.
Place of training	Ljubljana, Slovenia
Name and type of organisation providing training	Kmetijski Inštitut
Principal subjects/Occupational skills covered	Experimental Mechanics (Hottinger Baldwin Mestechnik)

Year	1992.
Place of training	Darmstadt, Germany
Name and type of organisation providing training	Fraunhofer Institut, Schenk, Hottinger Baldwin Messtechnik
Principal subjects/Occupational skills covered	Structural Integrity

Year	1991.
Place of training	Udine, Italy
Name and type of organisation providing training	CISM

Principal subjects/Occupational skills covered	Nonlinear Analysis of Shells by Finite Element Method

Year	1990.
Place of training	Udine, Italy
Name and type of organisation providing training	CISM
Principal subjects/Occupational skills covered	Optimization of Structures Regarding the Shape and Layout

Year	1990.
Place of training	Zagreb, Croatia
Name and type of organisation providing training	Brodarski Institut
Principal subjects/Occupational skills covered	Dynamic Response of Structure

PERSONAL SKILLS AND COMPETENCIES

Mother tongue(s): Croatian

Other language(s)

Language	English	German	Slovenian
Speaking	Proficient user (C1)	Independent user (B2)	Independent user (B2)
Writing	Proficient user (C1)	Independent user (B2)	Independent user (B2)
Understanding (listening and reading)	Proficient user (C1)	Independent user (B2)	Independent user (B2)

SOCIAL SKILLS AND COMPETENCIES

Teamwork, good communication and adaptivity.

ORGANISATIONAL SKILLS AND COMPETENCIES

- he organized and led the University of Rijeka (as a rector) and Faculty of Engineering (as a dean).
- as the member of National Council for Science of the Republic of Croatia he was deeply involved in research policy of Croatia.
- he manages and has managed scientifc projects.
- he founded, organized and teaches several courses on graduate and postgraduate study.
- he is was a Head of Department of Engineering Mechanics (until October 2016).

TECHNICAL SKILLS AND COMPETENCIES

- structural analysis, especially by the finite element method, in different field of linear and nonlinear responses.
- application of existing numerical procedures and development of new ones.
- experimental strain analysis on all types of structures with Hottinger Baldwin Messtechnik, DMCplus, 20 channells.
- experimental analysis of:
  - mechanical material properties on computer controlled testing machine Zwick Z400E, 400kN;
  - bending strength analysis on 3-pt bending system,
  - analysis of material creep behavior using testing machine 40 t and using furnace of 900°C.
  - fatigue of materials using servopulser machine

DRIVING LICENCE(S)

B category

ADDITIONAL INFORMATION

Professor Josip Brnić, D. Sc.

Summary view of publications

- 10 books
- 66 papers published in journals indexed in Current Contents / Web of Science
- 58 papers published in journals indexed in other distinguished bases
- 101 papers published in the proceedings of international conferences
- 9 papers published in domestic journals
- 10 papers pblished in the proceedings of domestic conferences
- 61 engineering studies / professional works

Awards

- Lifetime achivement award of the University of Rijeka Foundation (2012.) for academic year 2010/2011.
- The award of the Croatian Academy of Sciences and Arts for the highest achievements in the Republic of Croatia for the year 2010 in the field of Technical Sciences.
- 2nd Prize – Zwick Science Award 2009, Ulm, Germany.
- The award of the University of Rijeka Foundation for the scientific work in the field of technical sciences for 2004 year.
- Jubilee Medal for the year 1999 - award for outstanding contribution to the work and development of the Croatian Association of Production Engineering, and for the benefit of scientific and economic development of the Republic of Croatian.
- Appreciation for the contribution to the modernization of the Faculty of Mechanical Engineering in Slavonski Brod, June in 1999.
- Special Award of ÖIAV (Österreichischer Ingenieur und Architekten Verein) and DAAAM International for Significant Contribution in the Field of Engineering, Excellence in Science, and International Academic and Scientific Cooperation in Middle European Region Within the Framework of the Danube Adria Association for Automation & Manufacturing and Austrian Society of Engineers and Architects, Vienna & Cluj-Napoca, October 22, 1998.
- Annual state award for science for scientific achievements in the field of technical sciences for 1997.
- Certificate, Awarded to Prof. Josip Brnić, D.Sc., DAAAM International, Vienna, October 17-19, 1996.
- medal of Croatian President dr. Franjo Tuđman: Red Danice Hrvatske with the image of Ruder Boskovic, for special contribution to the science, in 1995.
- The award of the City of Rijeka in 1994, for creative work and creativity for the period 1992. - 1,993. year.

Research (and other) projects:

- 2014-2018 Head of the research project „Assessment of structural behaviour in limit state operating conditions“ financially supported from HRZZ-a (Croatian Science Foundation). Project collaborators are professors: G. Turkalj, M. Čanađija, D. Lanc, docenti: M. Brčić, G. Vukelić, and research associates: I. Pešić, S. Kršćanski, N. Munjas, E. Merdanović, D. Banić (since 1.3.2015).
- 2014-2015 Head (croatian side) of the bilateral research project (Croatia – China): „Material properties, creep behavior, fracture toughness and microstructure of metal alloys – experimental analysis and numerical simulations“ . Project collaborators (croatian side) were professors: G. Turkalj, M. Canadija, D. Lanc, M. Brcic. Head (chinese side) was: Prof. Jitai Niu (School of Material Science and Engineering, Jiaozuo, Henan Polytechnic University, China).
- 2014-2015 Head (croatian side) of the bilateral research project (Croatia – Austria): „Influence of Heat Affected Zone of electron beam welded steel casting GX4CrNi13-4 on the fatigue strength”. Project collaborators (croatian side) were professors: G. Turkalj, M. Canadija, D. Lanc, M. Brcic, assistents: S. Krscanski, I. Pesic, E. Merdanovic, N. Munjas. Head (austrian side) was Dr. Rudolf Vallant (Institute for Materials Science and Welding (IWS), Graz University of Technology).

- 2012- 2013 Head (croatian side) of the bilateral research project (Croatia – Slovenia): „Analysis of conditions for control of metal forming processes", Croatia-Slovenia. Project collaborators (croatian side) were: M. Canadija, M. Brcic, G. Vukelic, M. Krsulja. Head (slovenian side) was: Prof. Karl Kuzman, Ph. D. / Prof. Tomaž Pepelnjak, Ph.D.
- 2009-2011 Head (croatian side) of the bilateral research project (Croatia – China): „Metal alloys behavior at different environmental conditions-testing and numerical simulations". Project collaborators (croatian side) were: M. Čanađija, G. Turkalj, D. Lanc. Head (chinese side) was: Prof. Jitai Niu, Ph.D. (School of Material Science and Engineering, Jiaozuo, Henan Polytechnic University, Cina). Suradnici: Prof. Sijie CHEN, Ph.D, Prof.Qiang LI, Ph.D, and Associate Prof. Dongxia XU, Ph.D.
- 2007-2013 Head of research program: „Analysis of machines and structures responses in terms of efficient design", Ministry of science and technology of RH.
- 2007- 2013 Head of research project: "Numerical analysis of construction response for certain exploitation fields",Nr. 069-0691736-1737, Ministry of science and technology of RH.
- 2007- 2013 Member of the research team of research project:"Finite element models for stability analysis of beam type structures,Nr. 069-0691736-1731, head: Prof. G. Turkalj, D. Sc.
- 2002-2007 Head of the research project: "Numerical analysis of nonlinear problems in design and manufacturing", Nr. 0069-006, Ministry of science and technology of RH.
- 1996-2001 Head of the research project: "Numerical optimization in design and manufacturing", Nr. 069-001, Ministry of science and technology of RH.
- 1991-1996 Member of the researh team of research project: "Vibration of turbine blades with high static stresses" , Nr. 2-06-049, (head prof. M. Butković, D. Sc.), Ministry of science and technology of RH.
- 1991-1996 Head of the research project: "Structural analysis of the objects for optimal eficiency", Nr. 2-08-011, Ministry of science and technology of RH.
- Some other projects made in design organization „Brodoproject".

Reviews of scientific / research papers published in scientific journals indexed in Current Contents

- *Journal of Testing and Evaluation*
- *Finite Element in Analysis and Design (FINEL)*
- *Materials and Design*
- *Journal of Engineering Materials and Technology*
- *Metallurgical and Materials Transactions A (MMTA)*
- *Bulletin of Materials Science*
- *Journal of Constructional Steel Research*
- *High Temperature Materials and Processes*
- *Materials Science and Engineering B*
- *Journal of Structural Engineering*
- *Materials Science and Engineering A*
- *Engineering Structures*
- *Nuclear Engineering and Design*
- *Materials and Structures*
- *Journal of Materials Engineering and Performance*
- *Steel and Composite Structures*
- *Transactions of FAMENA (SCIEx)*
- *Strojniški vestnik- Journal of Mechanical Engineering (SCIEx)*
- *TEHNIČKI VJESNIK - TECHNICAL GAZETTE (SCIEx)*
- *Steel Research International*

The author has published the articles in the following journals indexed in Current Contents

- *Meccanica*
- *Journal of Engineering Mechanics*
- *Materials & Design*
- *Mechanics Research Communications*
- *Mechanics of Time-Dependent Materials*
- *High Temperature Materials and Processes*
- *Journal of Engineering Materials and Technology*

- *Journal of Testing and Evaluation*
- *Bulletin of Materials Science*
- *Int. Journal of Materials Science & Technology*
- *Computers & Structures*
- *Int. Journal of Plasticity*
- *Proc. IMechE, Part G: J. Aerospace Engineering*
- *Communications in Numerical Methods in Engineering*
- *Int. Journal of Structural Stability & Dynamics*
- *Materials Science and Engineering A*
- *Materials Science and Engineering B*
- *Journal of Constructural Steel Research*
- *Journal of Materials in Civil Engineering*
- *Steel and Composite Strucrures*
- *Structural Engineering and Mechanics*
- *Composite Structures, etc.*

Invited lectures

1. Brnić, J., Kršćanski, S., Brčić, M.: Properties that Characterize the Material X46Cr13 Steel, 8th ICPNS (International Conference on Physical and Numerical Simulation of Materials Processing), October 14-17, Seattle, USA, October 14-17., 2016. (Plenary Session)
2. Brnić, J.: Finite Element Analysis of Engineering Elements Subjected to Shear Stresses, School of Materials Science and Technology, Harbin Institute of Technology, January 17-24, 2016.
3. Brnić, J.: Creep of Metallic Materials, School of Materials Science and Technology, Harbin Institute of Technology, January 17 -24, 2016.
4. Brnić, J.: Introduction to Fracture Mechanics, School of Materials Science and Technology, Harbin Institute of Technology, January 17 -24, 2016.
5. Brnić, J., Niu, J., Turkalj, G., Čanađija, M., Lanc, D., Brčić, M., Kršćanski, S., Vukelić, G.: Comparison of Material Properties and Creep Behavior of 20MnCr5 and S275JR Steels, 7th ICPNS, Oulu, Finland (Key Lecture), 2013.
6. Brnić, J.: Analysis of Structure Made of X39CrMo17-1 Steel, Harbin Institute of Technology, School of Materials Science and Engineering, June 21, 2012, Harbin.
7. Brnić, J.: Crack Driving Force Assessment /Calculation – Pressure Vessel Steels, Harbin Institute of Technology, School of Materials Science and Engineering, June 21, 2012, Harbin.
8. Brnić, J., Turkalj, G., Čanađija, M., Lanc, D: X17CrNi16-2 Martensitic Stainless Steel – Temperature Dependency of Material Properties, Short - Time Creep Behavior and Fracture Toughness Assessment, The 6th International Conference on Physical and Numerical Simulation of Materials Processing (ICPNS 2010), November16-19, Guilin, China, 2010.
9. Brnić, J.: Structural steels S 355JO and 50CrMo4: comparison of their mechanical properties, creep behavior anf fracture toughness, International Conference on Innovative Technologies, In- Tech 2010, Brno, Czech Republic, 612-615, September 2010.
10. Brnić, J.: Creep experimental investigation and numerical structural analysis, DAAAM Baltic conference, Estonia, Tallinn, April 23-27, 2008.(Plenary Lecture)
11. Brnić, J., An overview of finite element structural analysis, University of Tai-Yuan, Taiyuan, China, April, 2008.
12. Brnić, J., Application of plate finite elements, Harbin institute of Technology, Harbin , China, April 2008.
13. Brnić, J., Turkalj, G., Čanađija, M., Lanc, D.: Behavior of high strength low-alloy(HSLA)steel at elevated temperatures, Proceedings of The 5th International Conference on Physical and Numerical Simulation of Material Processing, Zhengzhou : The Chinese Mechanical Engineering Society, 23.-27. October 2007.(Plenary Session).
14. Brnić, J.: Applications of finite elements, Harbin Institute of Technology, Harbin, China, September 2006.
15. Brnić, J.: Types of finite elements, Harbin Institute of Technology, Harbin, China, September 2006.

16. Brnić, J.: Determination of finite element equation, Harbin Institute of Technology, Harbin, China, September 2006.
17. Brnić, J.: Structural analysis using finite element method, Harbin Institute of Technology, Harbin, China, September 2006.
18. Brnić, J., Turkalj, G.: New finite elements in shear stress analysis of Saint – Venant's torsional loaded beam structures, The 4th International Conference on Physical and Numerical Simulation of Material Processing, ICPNS 2004, Shanghai, China, 2004.
19. Brnić, J., Turkalj, G., Čanađija, M.: Application of finite element structural optimization in naval architecture, The 10th International Symposium of Mathematics and its Applications, Timisoara, Romania, November 6-9, 2003.
20. Brnić, J., Turkalj, G., Čanađija, M.: Optimal design procedure based on the viscoplastic material behaviour, The Third International Conference on Physical and Numerical Simulation of Materials and Hot Working, ICPNS '99, Beijing, China, 1999.
21. Brnić, J.: Finite Element non-linear analysis of a special rolling problem, Pannonian Applied Mathematical Meetings, Göd/Budapest, 1998.
22. Brnić, J., Turkalj, G.: Finite element formulation of flattening process as a plane-strain problem, Balatonalmadi, Hungary, 1998.
23. Brnić, J.: Finite element nonlinear analysis of a special rolling problem, Pannonian Applied Mathematical Meeting, Göd/Budapest, Hungary, 1998.
24. Brnić, J.: Finite element modelling of creep phenomenon of different materials, (invited lecture), International Conference on Recent Advances in Metallurgical Processes (ICRAMP '97), Bangalore, India, 1997.
25. Brnić, J.: Mechanical sublayer method in creep and relaxation phenomena numerical modelling, Pannonian Applied Mathematical Meeting, Göd/Budapest, Hungary, 1996.
26. Brnić, J.: Structural optimization via plastic design criteria, Pannonian Applied Mathematical Meeting, Göd/Budapest, Hungary, 1996.
27. Brnić, J.: Theory of viscoplasticity - Fundamentals and Numerical Solutions, Pannonian Applied Mathematical Meeting, Göd/Budapest, Hungary, 1996.
28. Brnić, J.: Analitička i numerička rješenja u području elasto-viskopalstičnosti, Strojarski fakultet, Slavonski Brod, 1996.
29. Brnić, J.: Razvoj novih konačnih elemenata za analizu posmičnih naprezanja, Strojarski fakultet, Slavonski Brod, 1996.
30. Brnić, J.: Finite Element Analysis of Saint-Venant's Torsion Problem, Faculty of Mechanical Engineering, Brno, Czech Republic, 1995.

SIGNATURE

Professor Josip BRNIĆ – LIST OF PUBLICATIONS

1. M. Sc. thesis

Brnić, J.: Analysis of vibrations of plane constructions by computer (in Croatian), Faculty of Mechanical Engineering (Fakulteta za strojništvo), Ljubljana, 1983.

2. D. Sc. thesis

Brnić, J.: Analysis of stress state of cross-sections of statically loaded beam elements (in Croatian), Faculty of Engineering , Rijeka, 1988.

3. Books

1. Brnić, J.: Basics of optimization of mechanical constructions (in Croatian), Faculty of Engineering, Rijeka, 2013.

2. Brnić, J., Čanađija, M.: Analysis of Deformable Bodies by Finite Element Method (in Croatian), Fintrade & Tours, d.o.o.,Rijeka, and Faculty of Engineering, Rijeka, 2009.
3. Čanađija, M., Brnić, J.: Finite Strain Thermoplasticity: constitutive theory and numerical implementation, Monograph, Interuniversity Network, PAMM Centre, Budapest, 2006.
4. Brnić, J., Turkalj, G.: Strength of Materials II, Zigo, Rijeka, 2006.
5. Brnić, J., Turkalj,G.: Strength of Materials I (in Croatian), Faculty of Engineering, Rijeka, 2004.
6. Brnić, J.: Statics (in Croatian), faculty of Engineering, Rijeka, 2004..
7. Brnić, J.: Elastoplasticity and Elastoviscoplasticity, Monograph, Interuniversity Network, PAMM Centre, Budapest, 1998.
8. Brnić, J.: Elastomechanics and Plastomechanics (in Croatian), Školska knjiga, Zagreb, 1996.
9. Brnić, J.: Mechanics and Structural Elements (in Croatian), Školska knjiga, Zagreb, 1993.
10. Brnić, J.: Strength of Materials (in Croatian), Školska knjiga, Zagreb, 1991.

4. Book chapters

1. Turkalj, G., Brnić, J., Lanc, D.: Elasto-plastic large displacement analysis of thin-walled beam-type structures, in Bontempi, F. (ed): System-based Vision for Strategic and Creative Design, A.A. Balkema Publishers, Lisse, 2003.
2. Turkalj, G., Brnić, J., Lanc, D.: Non-linear formulation for elastic stability analysis of thin-walled beam-type structures, in Jarmani, K. & Farkas, J. (eds.) Metal Structures: Design, Fabrication, Economy, Millpress, Rotterdam, 2003.
3. Čanađija, M., Brnić, J.: A contribution to optimisation in thermomechanics. Shape and layout problems. in Katalinic, B. (ed.): DAAAM International Scientific Book 2003, DAAAM International, Vienna, 2003.
4. Turkalj, G., Brnic, J.: Nonlinear finite element stability analysis of elastic thin-walled framed structures, in Katalinic, B. (ed.): DAAAM International Scientific Book 2002, DAAAM International, Vienna, 2002.
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