

Vol. 1, No 1, 2001

A. Sedmak, Z. Burzić, J. Kurai, B. Aleksić, A. Bređan

Destructive Testing for Diagnosys, Repairment and Integrity Assessment of Platforming Reactor,
Integitet i Vek Konstrukcija, Vol.1, No1, 2001, str. 29-34

J. Kurai, Z. Burzić, B. Aleksić, A. Bređan, A. Sedmak

Pristup dijagnostici i sanaciji oštećenja izazvanih udarom gelera u cilindrični rezervoar za propan-butan

Diagnosys and Repairment of Cylindrical Storage Tank for Propane-Butane Damaged by Colateral Impact

T. Maneski, R. Čukić

Izbor najpovoljnijeg rešenja sanacije reaktora DC 303

Optimal Repairment Solution for Reactor DC-303

M. Majstorović

Sanacija glavne kolone DA-2301 postrojenja FCC

Repairment of the Main Column DA-2301 in FCC

M. Muravljev, T. Kovačević, V. Matović, M. Popović, M. Pavišić

Sanacija građevinskih objekata oštećenih bombardovanjem Rafinerije nafte Pančevo

Repairment of Building Facilities Damaged During Bombing of Pančevo Oil Refinery

B. Aleksić, A. Bređan, J. Kurai, D. Mišić

Pristup sanaciji peći serije 300 u NIS-Rafinerija nafte Pančevo

Repairment of Furnace Series 300 in NIS - Oil Refinery Pančevo

A. Sedmak, H. A. Anyiam

Primena mehanike loma na procenu integriteta konstrukcije
Structural Integrity Assessment Using Fracture Mechanics

P. Agatonović

Različite strategije određivanja preostale čvrstoće i veka
Different Strategies for Evaluation Remaining Strength and Life

V. Aleksić, A. Sedmak, M. Arsić, Z. Milutinović

Proračun parametara mehanike loma za površinske prsline primenom modela niza opruga
Evaluation of Fracture Mechanics Parameters for Surface Cracks by Application of Line Spring Model

Z. Burzić, S. Sedmak, M. Manjgo

Eksperimentalno određivanje parametara mehanike loma zavarenih spojeva
Experimental Evaluation of Weldment Fracture Mechanics Parameters

T. Maneski, A. Sedmak

Integritet konstrukcije

S. Sedmak

Sto godina udarnog ispitivanja po Šarpiju
A Century of Charpy Impact Test

S. Sedmak, A. Radović, V. Grabulov

Analiza odnosa energije nastanka i rasta prsline u čeliku na različitim temperaturama
The Analysis of Crack Initiation/Propagation Energy Ratio in Steel at Different Temperatures

M. Burzić, S. Sedmak, Z. Burzić, D. Jaković, D. Momčilović

Uticaj sadržaja ojačavača na udarnu žilavost livenog Al-SiC metal matričnog kompozita
The Effect of Reinforcement Content on Impact Toughness of Cast Al-SiC_p Metal Matrix Composite

M. Burzić, S. Sedmak, M. Zrilić, Z. Burzić, D. Jaković, D. Momčilović

Uticaj orijentacije vlakana na udarnu žilavost i osobine loma kompozita ugljenična vlakna - epoksi smola
The Effect of Fiber Orientation on Impact Toughness and Fracture Properties of Carbon Fiber-Epoxy Composite

T. Adžiev, A. Sedmak, G. Adžiev, M. Arsić

Ocena preostale čvrstoće zavarenog sfernog rezervoara sa prslinom
Residual Strength Assessment of Cracked Welded Spherical Storage Tank

V. Grabulov, I. Blačić, H. J. MacGillivray, S. Sedmak

Ocena dinamičke J-R krive pomoću Šarpi epruvete sa prslinom
Dynamic J-R Curve Evaluation Applying Pre-Cracked Charpy Specimen

O. Popović, A. Sedmak, N. Trišović

Određivanje žilavosti materijala različitim parametrima dobijenim Šarpijevim klatnom
Material Toughness Assessment Using Different Parameters Obtained by Charpy Pendulum

M. Puzić, M. Petrović

Uticaj seizmičkih sila na vertikalne cilindrične skladišne rezervoare
The Effect of Seismic Forces on Vertical Cylindrical Storage Tanks

A. Živković, M. Kutin, S. Sedmak, Z. Milutinović, M. Milanović, M. Arsić

Mikroprsline u ZUT spojeva fino-zrnih čelika zavarenih u zaštiti CO₂
Microcracks in HAZ of Fine-Grained Steel Welded in CO₂ Shielding

S. Damnjanović, A. Sedmak, H. A. Anyiam, N. Trišović, Lj. Milović

Određivanje C* integrala primenom EPRI procedure
C* Integral Evaluation by Using EPRI Procedure

M. Kirić, A. Sedmak

Granične vrednosti unutrašnjeg pritiska za cilindre sa prslinom

The Boundary Pressure Values for Internally Pressurized Cracked Cylinders

C. Delamarian

Opravka doboša kotla sa prslinama od naponske korozije postupkom hladnog zavarivanja

Cold Weld Repair of a Stress Corrosion Cracked Boiler Drum

G. Bakić, V. Šijački-Žeravčić

Određivanje vremenske čvrstoće niskolegiranih čelika izloženih puzanju u funkciji mikrostrukturnih parametara

Estimation of Long-Term Strength of the Material Exposed to the High-Temperature Creep Using the Microstructure Dependent Parameter

A. Bređan, J. Kurai

Evropska direktiva za opremu pod pritiskom (PED) i integritet konstrukcija

European Pressure Equipment Directive (PED) and Structure Integrity

H. Ș. Mateiu, N. Farbaș, T. Fleșer, R. Pascu

Ispitivanja za ocenu oštećenja termootpornih čelika korišćenih za komponente u termoelektranama
Researches Concerning Damage State Assessment of Heat Resistant Steels Used for Power Plant Components

J. Kurai, B. Aleksić

Ispitivanje pritiskom kao uzročnik pojave prslina kod opreme pod pritiskom u eksploataciji
Proof Pressure Test as a Cause of Crack Occurrence in Pressure Equipment in Service

M. Dobrojević, A. Sedmak, E. Argob, O. Popović

Analiza uticaja geometrije i heterogenosti materijala na ponašanje Šarpijeve epruvete
Effects of Geometry and Material Heterogeneity Properties to Behaviour of Charpy Specimen

G. Bakić, V. Šijački-Žeravčić

Određivanje vremena do loma niskolegiranih čelika izloženih puzanju u funkciji mikrostrukturnih parametara

Drugi deo: Određivanje vremena do loma

Determination of Time-to-Fracture of Low Alloyed Steels Under Creep Conditions as a Function of Microstructural Parameters

Second Part: Determination of time-to-fracture

G. Adžiev, A. Sedmak

Ocena integriteta sfernog rezervoara

Integrity Assessment of Spherical Storage Tank

T. Maneski, D. Ignjatović

Dijagnostika čvrstoće konstrukcije
Structural Performance Diagnostics

T. Maneski, D. Ignjatović

Sanacije i rekonstrukcije rotornih bagera
Repair and Reconstruction of Bucket Wheel Excavators

T. Maneski, D. Ignjatović

Sanacije i rekonstrukcije transportera i odlagača
Repair and Reconstruction of Belt Wagons and Stackers

E. O. Argoub, A. Sedmak, M. A. Essamei

Procena integriteta zavarene konstrukcije oblika ploče sa prslinom
Structural Integrity Assessment of Welded Plate with a Crack

M. Berković

Determination of Stress Intensity Factors Using Finite Element Method

M. Berković

Numerical Methods in Fracture Mechanics

M. Berković

Problems of Plane and Triaxial Stress States in Pressure Vessels and Pipelines

M. Berković, S. Maksimović, A. Sedmak

Analysis of Welded Joints by Applying the Finite Element Method

M. Berković, A. Sedmak

The Application of Finite Element Method in Calculation of Thin Shell J Integral

A. Sedmak, M. Berković, N. Savović

Numerical Analysis of Surface Crack Problems in Pressure Vessels

L. Maršavina, R. A. Tomlinson

Termoelastična analiza napona u proceni integriteta konstrukcije
Thermoelastic Stress Analysis for Structural Integrity Assessment

Ph. Jodin

Projektovanje drvene grede sa otvorima pomoću EUROCODE 5
Design of a Timber Beam with Holes with the Help of EUROCODE 5

A. Fertilio, T. Janković, I. Kovačević, D. Salamić

Sanacija oštećenja u cilju postizanja integriteta reaktora i produžetka veka eksploatacije
Reactor Damage Overhaul in the Course of Integrity Restoring and Service Life Extension

I. Živković, S. Maksimović, R. Aleksić

Numerička i eksperimentalna analiza inicijalnog otkaza kompozitnih laminata sa ugrađenim
fiberoptičkim senzorima
Numerical and Experimental Analysis of Initial Failure of Composite Laminates with Embedded
Fiberoptic Sensors

M. Arsić, V. Aleksić, N. Hut

Analiza stanja i ocena integriteta kotlova

Structural Performance Diagnostics

A. Kojović, P. Uskoković, R. Aleksić, D. Mitraković, I. Živković, M. Tomić, Lj. Brajović, S. Milinković

Praćenje oštećenja kompozitnih laminata pomoću fiberoptičkih senzora intenzitetnog tipa

Damage Monitoring of Composite Laminates by Means of Intensity Based Fiberoptic Sensors

R. Prokić-Cvetković, A. Milosavljević, O. Popović, K. Kovačević

Acikularni ferit u metalu šava niskougljeničnih čelika

Acicular Ferrite in Weld Metal of Low Carbon Steel

S. Sedmak, A. Sedmak

Integritet cevovoda hidroelektrane
Integrity of Penstock of Hydroelectric Powerplant

Z. Petrašković, D. Šumarac, M. Anđelković, S. Miladinović, M. Trajković

Sanacija oštećenih zidanih konstrukcija tehnologijom DC 90
Retrofitting Damaged Masonry Structures by Technology DC 90

I. Svetel

Primena informacionih tehnologija u arhitektonsko-građevinskom projektovanju u cilju ostvarenja integriteta objekta
Application of Information Technology in Architectural – Civil Engineering Design for Object Integrity Realisation

M. Trajković, D. Šumarac, M. Mijalković, D. Krajčinović

Otkrivanje oštećenja određivanjem dinamičkih karakteristika
Damage Detection via Dynamic Characteristics Determination

Lj. Kudrjavceva, D. Šumarac, M. Mićunović

Termoelastičnost oštećenih elastomera – efektivne karakteristike materijala
Thermoelasticity of Damaged Elastomers – Effective Material Properties

M. Pavišić

Otvoreni problemi modeliranja procesa loma u betonu
Open Problems in Modelling Fracture Process of Concrete

D. Momčilović

Čelici za armiranje betona
Steels for Concrete Reinforcement

R. Jovičić, R. Prokić-Cvetković, O. Popović

Ispitivanja metodama bez razaranja feritno-austenitnih zavarenih spojeva
Non-Destructive Testing of Ferritic-Austenitic Welded Joints

S. Bošnjak, Z. Petković, P. Matejić, N. Zrnić, S. Petrić, A. Simonović

Analiza stanja napona-deformacija konstrukcije obrtne platforme rotornog bagera – osnova efikasne rekonstrukcije
Analysis of Stress-Strain State of Bucket Wheel Excavator Revolving Platform Structure –
Fundament of Efficient Reconstruction

M. Behmen, M. Bugarin, M. Torlo, A. Mustapić, S. Isić

Doprinos razvoju metode relaksacije zaostalih zavarivačkih napona na metalnim konstrukcijama
Contribution to the Development of Welding Residual Stress Relaxation Method in Metallic Structures

S. Jallouf, Lj. Milović, G. Pluinage, A. Carmasol, S. Sedmak

Određivanje stepena sigurnosti i faktora pouzdanosti kotlovskih cevi sa površinskom prslinom
Determination of Safety Margin and Reliability Factor of Boiler Tube with Surface Crack

S. Sedmak

Određivanje deformacija i napona ispitivanjem indirektnim metodama i modeliranjem (PDF, 185 kB)
Determining Deformations and Stresses by Indirect Testing Techniques and Modelling (PDF, 185 kB)

S. Ristić

Holografska interferometrija i njena primena u beskontaktnim ispitivanjima
Holographic Interferometry and its Application in Contactless Testing

G. Mandić

Osnovni principi infracrvene termografije
Basic Principles of Infrared Thermography

J. Kurai, B. Aleksić

Termografija u kontroli opreme u eksploataciji
Thermography in the Inspection of In-Service Equipment

Z. Burzić, S. Sedmak

Akustična emisija – aktivna metoda ispitivanja bez razaranja
Acoustic Emission – An Active Non-Destructive Testing Method

M. Kirić

Ultrazvučno ispitivanje sa C-slikom – Primena na cevovode i zavarene spojeve
Ultrasonic Testing with C-Scan – The application to pipelines and welded joints

A. Popović, M. Marković, B. Panić, M. Nikolić

Sakupljanje i obrada podataka
Data Acquisition and Processing

N. Gubeljak

Primena stereometrijskog merenja na integritet konstrukcija
Application of Stereometric Measurement on Structural Integrity

S. Sedmak

Rad Društva za integritet i vek konstrukcija (2001–2006)

Activities of the Society for Structural Integrity and Life (2001–2006)

John C. Radon

Study of Surface Fatigue Cracks

Istraživanje površinskih zamornih prslina

T. Maneski, A. Sedmak, Lj. Milović, A. Fertilio, S. Sedmak

Ocena podobnosti za upotrebu zagrejača napojne vode posle popravke

Fitness-for-Purpose Assessment of Repaired Feedwater Heater

N. Anđelić, V. Milošević-Mitić

Optimizacija tankozidne konzole pri ograničenom uvijanju

Optimization of a Thin-Wall Cantilever Beam at Constrained Torsion

R. Vasić

Direktiva 89/106/EEC i harmonizovani standardi u građevinarstvu

Directive 89/106/EEC and Harmonized Standards in Civil Engineering

S. Sedmak, Z. Radaković

Uvodnik (PDF, 157 kB)

From the editor (PDF, 157 kB)

M. Arsić, V. Aleksić, Z. Anđelković

Teorijska i eksperimentalna analiza zavarene konstrukcije nosača satelita planetarnog reduktora

Theoretical and experimental analysis of welded structure supporting satellite planetary gear

A. Jakovljević

Numerička analiza napona parovoda visokog pritiska termoelektrana

Numerical stress analysis of high pressure steam lines in power plants

N. Filipović, K. Gerić, S. Sedmak

Uticaj uslova opterećenja na lom zavarenog tankozidnog rezervoara

Loading condition effect on the fracture of welded thin-walled storage tank

M. Pavišić

Ocena integriteta betonskih konstrukcija na osnovu rizika

Risk based integrity assessment of concrete structures

I. Atanasovska, D. Momčilović

Uticaj otkaza zubaca na bezbednost mašina – ispitivanje i analiza

The effect of teeth failures on machine safety – testing and analysis

S. Čubrilović, G. Mandić, Z. Karakstojković

Primeri otkaza zbog korozije u JKP "Beogradske elektrane"
Corrosion failure examples in JKP "Beogradske elektrane"

M. Stojanović

Metode za ocenu otpornosti prema koroziji metala u različitim uslovima eksploatacije
Methods for evaluation of corrosion resistance of metals in different service conditions

A. Onjia

Analitičke tehnike za određivanje i praćenje hemijskih supstanci od uticaja na koroziju
Analytical technics for determination and monitoring of chemical substances affecting the corrosion

Lj. Rajaković

Korozijski procesi u termoelektričkim postrojenjima usled neadekvatnog kvaliteta vode
Corrosion processes in thermal power plants caused by nonadequate water quality

D. Dražić, B. Jegdić

Naponska korozija
Stress corrosion

B. Ošljanac

Neki korozioni problemi plameno-dimne strane kotla
Some corrosion problems on flame – fume side of boiler

B. Jegdić, B. Bobić

Korozija zavarenih spojeva
Corrosion of welded joints

S. Vidojković

Fizičko-hemijske karakteristike vodene sredine na termoelektričkim objektima i njen uticaj na konstrukcijski materijal
Physical-chemical characteristics of water based environment in thermal power plants and its effect on the structural material

Č. Lačnjevac, S. Nešić

Katodna zaštita opreme termoelektričkih postrojenja od korozije
Cathodic corrosion protection of power plant equipment

Lj. Rašković, Č. Lačnjevac, B. Milošević

Antikorozijska zaštita energetskih postrojenja premaznim sredstvima
Anticorrosive protection of power plant components by coating films

N. Filipović

Analiza oštećenja termoelektričke opreme korozijom
Analysis of power plant component damage by corrosion

Z. Karastojković, Z. Janjušević, Z. Kovačević, V. Sarić, S. Čubrilović

Korozija toplovoda
Corrosion of hot water pipelines

V. Šijački-Žeravčić, G. Bakić, M. Đukić, B. Anđelić

Analiza rezultata ispitivanja vrelovodnog kotla kao podloga za ocenu njegovog integriteta
Analysis of test results of hot-water boiler as a basis for its integrity assessment

M. Đukić, V. Šijački-Žeravčić, G. Bakić, B. Anđelić

Integritet kotlovskog postrojenja u uslovima vodoničnih oštećenja
Integrity of boilers exposed to hydrogen damage

S. Sedmak, A. Sedmak, M. Kirić

Procena veka komponenti sa početnom korozijom
Integrity and life assessment of components endangered by corrosion

I. Svetel

Informaciono tehnološki standardi i vek konstrukcije u građevinarstvu

Information technology standards and structural life in civil engineering

M. Kirić, B. Grujić

Primena informatičko tehnoloških standarda pri ispitivanju bez razaranja mostova

Application of information technology standards for non-destructive testing of bridges

J. Kurai, Z. Burzić, N. Garić, M. Zrilić, B. Aleksić

Početno stanje napona cevi kotla za ocenu integriteta konstrukcije

Initial stress state of boiler tubes for structural integrity assessment

D. Momčilović, D. Jaković, I. Atanasovska

Klasifikacija eksploatacijskih oštećenja čeličnih užadi

Classification of in-service damages of steel wire ropes

J. Lozanović

Primena stereometrijskog merenja deformacija na makro i mikro nivou

Application of stereometric strain measurement at macro and micro level

Y. Assoul, N. Bacha, D. Semmar

Model verovatnoće piting korozije i procena zamornog veka turbinskih lopatica

Probabilistic model for pitting corrosion and fatigue life estimation of turbine blades

M. Arsić, V. Aleksić, Z. Radaković

Uticaj zaostalih napona u zavarenom spoju na otkaz rotornih bagera

The effect of residual stresses in welded joint on the failure of bucket wheel excavator

S. Maksimović, I. Ilić

Analiza čvrstoće mehaničkih spojeva vijcima kompozitnih ploča

Strength analysis of mechanically fastened joints on composite plates

I. Cvijović-Alagić, M. Rakin

Integritet biomedicinskih implanta od legura titana (prvi deo)

Integrity of biomedical implants of titanium alloys (first part)

M. Burzić

Analiza parametara prsline zavarenog spoja toplootpornog čelika

Analysis of crack parameters of welded joint of heat resistant steel

Lj. Milović

Značaj prslina u zoni uticaja toplote čelika za povišene temperature

Significance of cracks in the heat-affected-zone of steels for elevated temperature application

Ž. Šarkočević, M. Arsić, M. Rakin, A. Sedmak

Izrada šavnih cevi od čelika povišene čvrstoće i ispitivanje pokazatelja kvaliteta
Fabrication of high strength seam welded steel tubes and quality indicator testing

D. Georgijević, Z. Burzić

Uticaj korozije elemenata pričvrstnog pribora šine na integritet spoja
Corrosion effects of rail fastening device elements on joint integrity

G. Adžiev, A. Sedmak, T. Adžiev

Numerička analiza loma zatezne epruvete sa prslinom u ZUT
Numerical analysis of tensile specimen fracture with crack in HAZ

S. Kastelec-Macura, R. Prokić-Cvetković, R. Jovičić, O. Popović, M. Burzić

Poroznost zavarenih spojeva legure AlMg4,5Mn
Porosity of welded joints of AlMg4.5Mn alloy

I. Cvijović-Alagić, M. Rakin

Integritet biomedicinskih implanta od legura titana (drugi deo)
Integrity of biomedical implants of titanium alloys (second part)

M. Manjgo, A. Sedmak, B. Grujić

Ponašanje pri lomu i zamoru zavarenih spojeva čelika NIOMOL 490K

Fracture and fatigue behaviour of NIOMOL 490K welded joint

M. Arsić, A. Veljović, M. Rakin, Z. Radaković

Mogućnost procene veka prenosnika reduktora za pogon trakastih transportera primenom tenzometrijskih merenja

Possibility of life assessing the speed reducer for belt conveyor drive by applying tensometric measurements

I. Blačić, V. Grabulov

Određivanje J krive otpornosti metodom dve tačke

Determination of J resistance curve by two points method

T. Maneski, V. Milošević-Mitić, N. Anđelić, Lj. Milović

Sanacija i rekonstrukcija autoklava

Overhaul and reconstruction of an autoclave

V. Grabulov, I. Blačić, A. Radović, S. Sedmak

Žilavost i duktilnost zavarenih spojeva čelika visoke čvrstoće

Toughness and ductility of high strength steels welded joints

J. Capelle, I. Dmytrakh, G. Pluinage

Electrochemical hydrogen absorption of API X52 steel and its effect on local fracture emanating from notches

J. Capelle, J. Gilgert, I. Dmytrakh, G. Pluinage

Hydrogen effect on fatigue and fracture resistance of a pipe steel

N. Kazi Tani, T. Tamine, G. Pluinage

Numerical evaluation of the strain energy release rate with orientation and position of a crack near a bi-material interface

P. Jodin, H. Zedira, Z. Azari, J. Gilgert

Fatigue life assessment of an excavator arm box – Experiments and Computations

M. Kirić, A. Sedmak, J. Lozanović, R. Tomić

A comparative analysis of engineering methods in fracture mechanics

S. Sedmak, V. Grabulov, D. Momčilović

Chronology of lost structural integrity initiated from manufacturing defects in welded structures

V. Stevanović

Dynamic loads by various water hammer phenomena

Lj. Milović, M. Zrilić

Failure analysis of rotary screw pump

R. Wanhill

Istraživanje u Nacionalnoj Vazduhoplovnoj Laboratoriji (NLR) značajnih eksploatacijskih otkaza vazduhoplova

Some notable aircraft service failures investigated by the National Aerospace Laboratory (NLR)

S.A. Barter, L. Molent, P. White, B. Dixon

Skorašnja ispitivanja na zamor realnih sklopova F/A-18 u Australiji

Recent Australian full-scale F/A-18 fatigue tests

S. Posavljak

Proračun oštećenja diskova avionskih motora

Damages computation of aircraft engine disks

T. Pankaj

Elasto-plastični prelazni naponi u izotropnom disku promenljive debljine izloženom unutrašnjem pritisku

Elastic-plastic transition stresses in an isotropic disc having variable thickness subjected to internal pressure

R. Tomić, A. Sedmak

Uticaj sopstvenih učestanosti na inicijaciju prslina kućišta zupčaste pumpe

Influence of eigen frequencies on crack initiation in gear pump housing

R. Wanhill

Krtost arheološkog srebra i gvožđa
Embrittlement of archaeological silver and iron

N. Gubeljak, J. Predan, I. Rak, D. Kozak

Ocena integriteta zavarenog spoja HSLA čelika različite čvrstoće osnovnog metala i metala šava
Integrity assessment of HSLA steel welded joint with mis-matched strength

S. Belbachir, F. Zaïri, G. Ayoub, U. Maschke, M. Naït-Abdelaziz, J.M. Gloaguen, M. Benguediab, J.M. Lefebvre

Uticaj ultraljubičastog zračenja na zatezne karakteristike amornog filma polilaktida
Effect of ultraviolet irradiation on the tensile properties of amorphous polylactide films

T. Pankaj

Elastično-plastični prelaz u tankom obrtnom disku promenljive gustine sa uključcima
Elastic-plastic transition in a thin rotating disc having variable density with inclusion

Z. Petrašković

Analiza histerezisa niskocikličnog zamora čeličnih dampera za primenu pri zemljotresu
The analysis of hysteresis in low cycle fatigue of steel dampers for earthquake application

R. Tomić, A. Sedmak

Analiza prigušenja konstrukcije tipa ljuske od legure titana u poređenju sa konstrukcijom od legure aluminijuma
Analysis of structural damping of titanium alloy shell structures as compared with that of aluminium alloy structures

T. Maneski, V. Milošević-Mitić

Numeričko-eksperimentalna dijagnostika čvrstoće konstrukcija
Numerical and experimental diagnostics of structural strength

P. Jovančić, D. Ignjatović

Proaktivni sistem nadzora osnovne rudarske opreme na površinskim kopovima
Proactive monitoring system for main mining mechanization at open cast mines

B. Jeftenić, L. Ristić, M. Bebić, S. Štatkić, D. Jevtić, I. Mihailović, N. Rašić

Realizacija rada sistema tračnih transportera sa daljinskim upravljanjem
Realization of system of belt conveyors operation with remote control

D. Polovina, S. Ivković, D. Ignjatović, M. Tanasijević

Ocena preostalih radnih mogućnosti rotornog bagera metodom primenjene ekspertske ocene sa empirijskim faktorom korekcije
Remaining operational capabilities evaluation of bucket wheel excavator by application of expert assessment method with empirical correction factor

M. Tanasijević, D. Ivezić, P. Jovančić

Ocena sigurnosti funkcionisanja rotornog bagera korišćenjem pravila fazi algebre
Estimation of bucket wheel excavator dependability using fuzzy algebra rules

D. Daničić, T. Maneski, D. Ignjatović

Dijagnostika stanja i ponašanja čelične konstrukcije rotornih bagera
Structural diagnostics and behaviour of bucket wheel excavator

R.J.H. Wanhill, J.P. Northover

Krstost antičkog srebra izazvanu korozijom
Corrosion-induced embrittlement of ancient silver

H. Mateiu, T. Fleşer, A. Murariu

Procena interakcije puzanje-zamor čelika 16Mo5
Creep-Fatigue Interaction Assessment of 16Mo5 Steel

R. Yordanova, D. Angelova, Z. Naydenova, A. Stoyanova-Ivanova, V. Mikli

Zamor rotacija-savijanje kod niskougljeničnog čelika
Rotating-Bending Fatigue in a Low-Carbon Steel

Y.H. Kacem, T.H. Ezzeddine, G. Pluvinage

Značaj sigurnosti naftovoda radi smanjenja oštećenje cevovoda
Importance of Oil Pipeline Security for Minimising Pipeline Damage

S. Cvetkovski, L.P. Karjalainen, V. Kujanpää, A. Ahmad

Određivanje unosa toplote za TIG i Lasersko zavarivanje čelika LDX 2101 uvođenjem jednačine Adamsa za 2-D raspodelu toplote
Welding Heat Input Determination in Tig and Laser Welding of LDX 2101 Steel by Implementing the Adams Equation for 2-D Heat Distribution

E. Mihailov, V. Petkov

Dijagnostika vatrostalne obloge livačkog lonca na bazi modela
Model Based Diagnosis of Ladle Refractory Lining

M.K. Mihovsky, V.B. Hadzhiyski, R. Gavrilova

Novi kalup sa kombinovanim - indirektnim i direktnim hlađenjem, za kontinualno vertikalno livenje-nagore aluminijumskih žica
New Mould with Combined – Indirect and Direct Cooling, for Vertical Upwards Continuous Casting of Aluminium Wires

R. Gavrilova, V. Manolov

Proračun dubine unutrašnje šupljine koja potiče od skupljanja rastopa metala
Calculating the Depth of the Inner Cavity Resulting from Shrinkage of Molten Metal

D. Choshnova

Struktura toka i temperaturska raspodela u reakcionoj komori plamene topioničke peći – računarska simulacija
The Structure of Stream and Temperature Distribution in the Reaction Shaft of the Flash Smelting Furnace – Computer Simulation

B. Glišić, D. Inaudi

Praćenje integriteta mostova kritičnih u pogledu loma
Integrity Monitoring of Fracture Critical Bridges

P. Jodin

Poređenje numeričkih metoda za pouzdanost proračunskog pokazatelja Hasofer-Linda
Comparison Between Numerical Methods for Hasofer-Lind's Reliability Index Computations

J. Capelle, J. Gilgert, G. Pluvinage

Parametri inicijacije zamora u prisustvu vodonika
A Fatigue Initiation Parameter in Presence of Hydrogen

D. Kozak, P. Konjatić, F. Matejiček, D. Damjanović

Uticaj smaknutosti zavara na integritet cilindrične posude pod pritiskom
Weld Misalignment Influence on the Structural Integrity of Cylindrical Pressure Vessel

A. Sedmak, K. Čolić, Z. Burzić, S. Tadić

Procena integriteta konstrukcije implanta veštačkog kuka izrađenog od višefazne Co-Cr legure
Structural Integrity Assessment of Hip Implant of Cobalt-Chromium Multiphase Alloy

J. Ismail, F. Zaïri, M. Naït-Abdelaziz, Z. Azari

Analiza konačnim elementima statičkog utiskivanja stakla
Finite Element Analysis of Static Indentation in Glass

F. Vodopivec, G. Kosec, M. Jenko, J. Vojvodič-Tuma

Zarezna žilavost po šarpiju i čvrstoća cepanja ponovo zagrejanog martenzita i donjeg beinita
Charpy Notch Toughness and Cleavage Strength of Reheated Martensite and Lower Bainite

J. Capelle, J. Gilgert, I. Dmytrakh, G. Pluinage

Ocena greške na cevi za transport mešavine vodonika i prirodnog gasa
Defect Assessment on Pipe Used for Transport of Mixture of Hydrogen and Natural Gas

S. Szávai, T. Köves

Analiza pouzdanosti i preostalog veka cilindra kompresora za amonijak sa prslinom
Reliability and Lifetime Analysis for a Cracked Cylinder of Ammonia Unit Compressor

D. Angelova, R. Yordanova, D. Krashev, B. Yordanov

Poređenje zamora savijanjem i obrtnim savijanjem niskougljeničnog čelika
Comparison of Bending and Rotating Bending Fatigue of Low-Carbon Steel

R. Mitrović, D. Momčilović, I. Atanasovska, N. Hut

Predviđanje veka čeličnog žičanog užeta u eksploataciji
Service Life Prediction of Running Steel Wire Ropes

A. Cernescu, I. Dumitru

Uticaj odnosa napona na brzinu rasta zamorne prsline
Effect of Stress Ratio on Fatigue Crack Growth Rate

C. Barile, C. Casavola, C. Pappalettere, F. Tursi

Ponašanje RFI kompozitnih materijala
RFI Composite Materials Behaviour

E. Mihailov, V. Petkov, M. Ivanova

Određivanje parametara hlađenja za kontinualno livenje blumova
Determination of Cooling Parameters During Continuous Casting of Blooms

R. Gavrilova, V. Hadzhiyski, M. Mihovsky

Struktura i mehaničke osobine vertikalno-nagore kontinualno livene aluminijumske žice
Structure and Mechanical Properties of Vertical Upwards Continuously Casted Aluminium Wires

I. Hajro, O. Pašić, Z. Burzić

Istraživanje parametara elastoplastične mehanike loma zavara poboljšanog čelika visoke čvrstoće
Investigation of Elastic-Plastic Fracture Mechanics Parameters of Quenched and Tempered High-Strength Steel Welds

I. Čamagić, N. Vasić, B. Ćirković, S. Cvetković, Z. Vasić

Ispitivanje promenljivim i udarnim opterećenjem zavara HSLA čelika
Variable and Impact Load Testing of HSLA Steel Welds

M. Manjgo, M. Behmen, F. Islamović, Z. Burzić

Ponašanje prsline u zavarenom spoju mikrolegiranog čelika
Behaviour of Cracks in Microalloyed Steel Welded Joint

V. Gliha, Z. Burzić, T. Vuherer

Neki faktori koji utiču na otpornost zavara prema zamoru
Some Factors Affecting Fatigue Resistance of Welds

Z. Bogatinoski, G. Arsova-Milosevska, B. Trajanoska

Numeričko modelovanje spoja greda-stub višespratne kompozitne konstrukcije
Numerical Modelling of Beam-Column Connections at Multi-Storey Composite Structures

K. Gerić, A. Sedmak

Numeričko modelovanje otvaranja vrha prsline u zavarenom spoju
Numerical Modelling of Crack Tip Opening in Welded Joint

Yu. G. Matvienko

Razvoj modela i kriterijuma mehanike loma zareza
Development of Models and Criteria of Notch Fracture Mechanics

I. Dlouhý, H. Hadraba, Z. Chlup, T. Šmida

Ocena zavisnosti žilavosti loma od temperature primenom neuronske mreže
Prediction of Fracture Temperature Dependence Applying Neural Network

Ph. Jodin

Primena numeričkih metoda u eksperimentima mehanike loma sa mešovitim oblikom loma
Application of Numerical Methods to Mixed Modes Fracture Mechanics Experiments

E.Q. Lin, L.S. Niu, H.J. Shi

Molekularna dinamička studija razvoja mikrostrukture kristalnog materijala pri kontaktnom klizanju
Molecular Dynamic Study of Microstructure Evolution of Crystalline Material During Contact Sliding

B. Šuštaršič, P. Borkovič, W. Eichlseder, G. Gerstmayr, A. Javidi, B. Sencič

Dinamička čvrstoća i osobine mikrostrukture čelika za opruge
Fatigue Strength and Microstructural Features of Spring Steel

E. Sami, D. Ahmed, H.T. Ezzeddine

Termomehanička analiza zamora molekularne filter gasne sušare
Thermo Mechanical Fatigue Analysis of Molecular Sieve Gas Dryers

J. Jeong, P. Mounanga, H. Ramézani, M. Bouasker

Multiskalarno modeliranje na bazi higro-Kosera teorije za deformaciju u ranoj fazi samoisušivanja cementnog maltera
Multi Scale Modelling Based on the Hygro-Cosserat Theory for Self Desiccation Deformation of Cement Mortars at Early Age

B. Younise, M. Rakin, N. Gubeljak, B. Medjo, A. Sedmak

Numerička simulacija uticaja veze na inicijaciju loma kod zavarenih epruveta upotrebom modela lokalnog oštećenja
Numerical Simulation of Constraint Effect on Fracture Initiation in Welded Specimens Using a Local Damage Model

H. Ramézani, J. Jeong

Infinitesimal Non-Linear Cosserat Theory Based on the Grain Size Length Scale
Infinitesimalna nelinearna teorija Kosera na bazi dužinske skale veličine zrna

E. Sami, H. T. Ezzeddine

Analysis of Resonance Phenomenon of Hydrogen-Natural Gas Mixtures Flows in Pipelines
Analiza fenomena rezonance protoka mešavina vodonik-prirodni gas u cevovodima

C. Casavola, C. Pappalettere, G. Pluinage

Safety Factors Associated with Fatigue Resistance of Titanium Hybrid Welded Joints
Stepeni sigurnosti povezani sa otpornošću prema zamoru kod hibridnih zavarenih spojeva od titana

A. Alhussein, J. Capelle, J. Gilgert, S. Hariri, Z. Azari

Damage of Pipelines by Sandblasting and Hydrogen
Oštećenja cevovoda peskiranjem i vodonikom

H. Filipescu, L. Marsavina, C. Caplescu, L. Culea, R. Negriu

Stress Concentration Effect on Fracture Behaviour of Polyurethane Material
Uticaj koncentracije napona na ponašanje loma poliuretanskog materijala

M. Allouti, C. Schmitt, G. Pluinage, M. Lebienvenu

Evaluation of the Nocivity of Dent and Combination of Dent and Gouge on Burst Pressure of Steel Pipe
Procena oštećenja ulegnuća i kombinacija ulegnuća i izdubljenja na pritisak razaranja čelične cevi

C. Besleaga, R. Negriu, I. Popescu, S. Badea

Case Study Regarding the Tamping Tool Type BNRI 85
Analiza loma alata za nabijanje tipa BNRI 85

M. Hadj Meliani, Z. Azari, G. Pluinage, Y.G. Matvienko

Two-Parameter Fracture Criterion by Volumetric Method Approach
Dvoparametarski kriterijum loma pristupom volumetrijskog metoda

D. Momčilović, N. Hut, Lj. Milović, I. Atanasovska

Failure Analysis of Chain Bracket
Analiza loma spojnice lanca

S. Marković, Lj. Milović, A. Marinković, T. Lazović

Tribological Aspect of Selecting Filler Metal for Repair Surfacing of Gears by Hardfacing
Tribološki aspekti izbora dodatnog materijala kod površinske reparacije zupčanika tvrdim navarivanjem

D. Veljić, M. Perović, A. Sedmak, M. Rakin, N. Bajić, B. Medjo, H. Dascau

Numerical Simulation of the Plunge Stage in Friction Stir Welding
Numerička simulacija faze uranjanja kod zavarivanja trenjem mešanjem

P. Đorđević, S. Kirin, A. Sedmak, E.Đžindo

Analiza rizika integriteta konstrukcija
Risk Analysis in Structural Integrity

P. Agatonović

Structural Integrity Analysis of Multi-Bolted Connections using the Innovative Beam Model
Analiza integriteta konstrukcijskog spoja sa više vijaka primenom poboljšanog modela grede

C.M. Sonsino

Spectrum Loading Effects on Structural Durability of Components
Uticaji spektra opterećenja na trajnost komponentata u konstrukcijama

G. Pluinage

Fracture Criteria: Global or Local?
Kriterijumi loma: globalni ili lokalni?

C. Barile, C. Casavola, G. Pappalettera, C. Pappalettere

Residual Stress Measurement by Electronic Speckle Pattern Interferometry: A study of the influence of geometrical parameters
Merenje zaostalih napona elektronskom interferometrijom šablona mrlja: studija uticaja geometrijskih parametara

Lj. Milović, T. Vuherer, Z. Radaković, M. Janković, M. Zrilić, D. Daničić

Determination of Fatigue Crack Growth Parameters in Welded Joint of HSLA Steel
Određivanje parametara zamornog rasta prsline kod zavarenih spojeva od hsla čelika

D. Alvarez, A. Barbas, A.S. Bonnet, P. Lipinski

Measurement and Interpretation of Viscous Interactions During Contact Between Bone and Prosthetic Materials
Merenje i interpretacija viskoznih interakcija pri međusobnom kontaktu kosti i protetičkih materijala

A. Alhussein, J. Capelle, J. Gilgert, S. Dominiak, Z. Azari

Influence of Sandblasting and Hydrogen on Tensile and Fatigue Properties of Pipeline API 5L X52 Steel
Uticaj peskiranja i vodonika na zatezne osobine i zamor API 5L X52 čelika za cevovod

R. Jovičić, A. Sedmak, R. Prokić-Cvetković, S. Bulatović, G. Buyukyildirim

Cracking Resistance of AlMg4.5Mn Alloy TIG Welded Joints
Otpornost na prsline zavarenih TIG spojeva AlMg4.5Mn legure

S. Kirin, A. Jovanović, P. Stanojević, A. Sedmak, E. Džindo

Risk Analysis in Structural Integrity – Application to a Large Company
Analiza rizika integriteta konstrukcija – primena na veliku kompaniju

S. Sedmak, Z. Radaković, Lj. Milović, I. Svetel

Značaj i primenljivost ocene integriteta konstrukcija

Significance and Applicability of Structural Integrity Assessment

N. Gubelj, J. Predan, D. Kozak

Primena koncepta procurivanja pre loma na posudu pod pritiskom - procena elasto-plastičnog otvaranja polu-eliptične prolazne prsline

Leak-Before-Break Analysis of a Pressurizer - Estimation of the Elastic-Plastic Semi-Elliptical Through-Wall Crack Opening Displacement

M. Burzić, Z. Radaković, M. Manjgo, Z. Burzić

Uticaj orijentacije vlakna na karakteristike loma kompozita tipa staklena vlakna-epoksi smola

The Effect of Fiber Orientation on Fracture Properties of Glass Fiber-Epoxy Composite

A. Sedmak, M. Milošević, N. Mitrović, A. Petrović, T. Maneski

Korelacija digitalne slike u analizi eksperimentalne mehanike

Digital Image Correlation in Experimental Mechanical Analysis

D. Daničić, T. Maneski

Lom konstrukcije strele odlagača rotornog bagera C 700 S usled dinamičkih uticaja

The Structure Failure of the Discharge Boom of Bucket Wheel Excavator C 700 S due to Dynamic Effects

M. Hadj Meliani, Z. Azari, Y.G. Matvienko, A. Elhoud, G. Pluinage

Postupak procene loma za API 5L čelike gasovoda

Fracture Assessment Procedure of API 5L Gas Pipe Steels

P. Borković, B. Šuštaršić, V. Leskovšek, B. Žužek, B. Podgornik, M. Malešević

MKE simulacija mono lisnate opruge i procena veka zamora

FEM Simulation of a Mono-Leaf Spring and its Fatigue Life Prediction

K. Čolić, A. Sedmak, N. Gubelj, M. Burzić, S. Petronić

Eksperimentalna analiza ponašanja loma nerđajućeg čelika za biomedicinsku primenu

Experimental Analysis of Fracture Behaviour of Stainless Steel used for Biomedical Applications

T. Pankaj

Deformacija tankog rotirajućeg diska promenljive debljine i opterećenih ivica sa uključkom pri prelaznim elastično-plastičnim naponima

Deformation in a Thin Rotating Disc Having Variable Thickness and Edge Load with Inclusion at the Elastic-Plastic Transitional Stresses

R. Tomić

Eksperimentalna verifikacija proračuna ravanskog naprezanja kompozitnih tankih ploča na bazi metode konačnih elemenata

Experimental Verification of In-Plane Stress Calculation of Thin Composite Plate Based on the Finite Element Method

K.-H. Haase

Load Monitoring Using Fibre Optical Technology
Praćenje opterećenja primenom tehnologije optičkih vlakana

I. Popescu, R.M. Negriu, C. Besleaga, S.G. Badea, M. Stefanescu

Case Study of the Chain Excavator
Studija oštećenja lančanog bagera

G. Wardeh, E. Ghorbel

Fracture Behaviour of Frost Damaged Concrete
Lom betona oštećenog mržnjenjem

T. Sedmak, E. Veg

Failure Prevention of Rotating Equipment by Vibrodiagnostics
Predupređivanje otkaza obrtnih mašina pomoću vibrodijagnostike

R. Jovičić, A. Sedmak, S. Sedmak, Lj. Milović, K. Jovičić

Leakage of an Austenitic Steel CO₂ Storage Tank
Curenje posude za skladištenje CO₂ od austenitnog čelika

V. Dattoma, S. Giancane, F. Palano, F.W. Panella

ND Small Defects Detection of GFRP Laminates Using Pulsed Thermography
Otkrivanje malih grešaka bez razaranja GFRP laminata primenom impulsne termografije

H. Kazdar, E. Hadj Tajeb, G. Pluvinage

Miskar Compression Module Seawater Cooling Pipework Improvement
Poboljšanje kompresionog modula rashladnog cevovodnog sistema morske vode Miskar

Z. Azari, C. Casavola, C. Pappalettere, C.I. Pruncu

Numerical Simulation in Coated Materials: Model of Crack Propagation Bi-Material
Numerička simulacija materijala sa prevlakom: model rasta prsline bi-materijala

C. Casavola, C. Pappalettere, F. Tattoli

Fatigue Behaviour of Hybrid Ti6Al4V Cruciform Welded Joints
Zamor hibridnih krstastih zavarenih spojeva Ti6Al4V

C. Casavola, V. Giordano, C. Pappalettere

Mechanical Behaviour of As-Welded and Smooth Cord Titanium Welded Joints
Mehaničko ponašanje zavarenih spojeva titana sa neobrađenim i sa glatkim licem konture šava

S. Petronić

Comparative Analysis of the Design Stress According to Different Regulations on Pressure Equipment
Uporedna analiza projektnih napona računatih prema pravilnicima o opremi pod pritiskom

C. Casavola, C. Pappalettere, F. Tursi

Residual Stress on AISI 300 Sintered Materials - Effect of thickness
Zaostali naponi u AISI 300 sinterovanim materijalima – uticaj debljine

C. Barile, C. Casavola, G. Pappalettera, C. Pappalettere

Residual Stress Measurement by Electronic Speckle Pattern Interferometry: A Study of the Influence of Analysis Parameters
Merenje zaostalih napona elektronskom interferometrijom šablona mrlja: studija uticaja analitičkih parametara

T. Pankaj

Thermo Creep Transition Stresses in a Thick-Walled Cylinder Subjected to Internal Pressure
Termalni prelazni naponi od puzanja u debelozidnom cilindru pod unutrašnjim pritiskom konačnom deformacijom

Lj. Milović, S. Bulatović, Z. Radaković, V. Aleksić, S. Sedmak, S. Marković, M. Manjgo

Assessment of the Behaviour of Fatigue Loaded HSLA Welded Steel Joint by Applying Fracture Mechanics Parameters
Procena ponašanja zavarenog spoja HSLA čelika opterećenog na zamor primenom parametara mehanike loma

S. Kirin, A. Sedmak, R. Mitrović, P. Stanojević, Đ. Ilić

SAFERA – European Project on Industrial Safety
SAFERA – Evropski projekt industrijske bezbednosti

V. Milošević-Mitić, B. Gaćeša, N. Anđelić, T. Maneski

Numerical Calculation of the Water-Tube Boiler Using Finite Element of the Orthotropic Plate
Numerički proračun vodenog cevnog kotla primenom konačnih elemenata ortotropne ploče

T. Sedmak, R. Bakić, S. Sedmak, Lj. Milović, S. Kirin

Applicability of Risk-Based Maintenance Strategy to a Penstock
Strategija održavanja zasnovana na riziku – primenljivost na cevovod

A. Đerić, J. Nikolić, N. Mitrović, M. Balać, A. Petrović

Comparative Display of Calculation and Result Analysis for Pressure Vessels According to Serbian and European Standards – Cylindrical Shells
Uporedni prikaz proračuna i analiza rezultata za posude pod pritiskom prema srpskim i evropskim standardima – cilindrični omotači

I. Atanasovska, D. Momčilović, M. Burzić, T. Vuherer

Coupled Nonlinear Problems in Finite Element Analysis – A Case Study
Spregnuti nelinearni problemi u analizi konačnim elementima – studija slučaja

S. Petronić, B. Grijić, M. Balać

Test Pressures and Stresses for Pressure Vessels According to New Regulation 87/11
Ispitni pritisci i naponi za posude pod pritiskom prema novom pravilniku 87/11

M. Burzić, R. Prokić-Cvetković, M. Manjgo, Lj. Milović, M. Arsić, O. Popović

Effect of Vibration on Variation of Residual Stresses
Uticaj vibracija na promenu zaostalih napona i energije udara kod sučeo zavarenih spojeva

M. Ćosić, B. Folić, S. Sedmak

Buckling Analysis of 3D Model of Slender Pile in Interaction with Soil Using Finite Element Method

Analiza stabilnosti vitkog 3d modela šipa u interakciji sa tlom metodom konačnih elemenata

S. Sharma, M. Sahni

Termo-elasto-plastično prelazno stanje u homogenom debelozidnom kružnom cilindru pod dejstvom spoljašnjeg pritiska
Thermo Elastic-Plastic Transition of a Homogeneous Thick-Walled Circular Cylinder Under External Pressure

Lj. Milović, V. Milošević-Mitić, Z. Radaković, N. Anđelić, B. Petrovski

Procena nosivosti posude pod pritiskom u prisustvu prslina
Assessment of Pressure Vessel Load Capacity in the Presence of Cracks

I. Popescu, R.M. Negriu, S.G. Badea, C. Besleaga, M. Stefanescu

Procesi degradacije kuglica ventila sa gradijentom strukture, korišćenih u industriji nafte
Ways of Deteriorating the Balls with Structural Gradient from the Valves Used in the Oil Extraction Industry

J. Capelle, G. Pluvinage

Modifikacija rizika loma primenom čelika povišene čvrstoće u cevovodima
Modification of Failure Risk by the Use of High Strength Steels in Pipelines

Yu.G. Matvienko

Plastična zona ispred vrha prslina pod I tipom opterećenja i nesesingularni T_{zz} -napon
Crack Tip Plastic Zone Under Mode I Loading and the Non-Singular T_{zz} -Stress

C. Casavola, V. Giordano, C. Pappalettere, C.I. Pruncu

Uticaj geometrijskog oblika epruvete u karakterizaciji veka zamaranja zavarenog spoja legure titana
Influence of Geometrical Shape of Specimen in Fatigue Life Characterization on Welded Joint in Titanium Alloy

D. Pešić, M. Blagojević, S. Bogdanov

Proračun otpornosti građevinskih konstrukcija na realni požar
Real Fire Resistance Calculation of Building Structures

R. Bakić, Lj. Milović, R. Jovičić, S. Sedmak

Osiguranje kvaliteta rezervoara u eksploataciji posle popravke prslina
Quality Assurance of Storage Tanks After In-Service Crack Repairs

S. Polić-Radovanović, S. Petronić, A. Milosavljević

Integritet i vek konstrukcija u heritologiji
Structural Integrity and Life in Heritology

P. Gubeljak

Eksperimentalno određivanje oscilatornog ponašanja dvostrukog klatna
Experimental Determination of Oscillation Behaviour of Double Pendulum

B. Jegdić, S. Ostojić, B. Bobić, A. Alil

Interkristalna korozija zavarenih spojeva. Uslovi nastanka i postupci sprečavanja
Intergranular Corrosion Of Welded Joints. Forming Conditions And Procedures For Prevention

Petar Agatonović

Predlog za poboljšanu konstrukciju pouzdanih dijagrama procene loma kod komponenata sa površinskom prslinom
Proposal for the Improved Design of Reliable Failure Assessment Diagrams for Components with Surface Crack

T. Pankaj, S.B. Singh, J. Kaur

Elastoplastični prelazni naponi u tankom rotirajućem disku sa vratilom sa promenljivom debljinom pod ravnomernim uticajem temperature
Elastic-Plastic Transitional Stresses in a Thin Rotating Disc With Shaft Having Variable Thickness Under Steady State Temperature

M. Arsić, R. Karić, A. Sedmak, M. Burzić, B. Vistić

Metodološki pristup proceni integriteta i veka rotacione opreme u hidroelektrani – turbinsko vratilo
Methodological Approach to Integrity Assessment and Service Life of Rotating Equipment at Hydropower Plant – Turbine Shaft

B. Čirković, I. Čamagić, N. Vasić, A. Ilić

Istraživanje uticaja kompozitnih materijala na integritet nosećih struktura mašina izloženih promenljivom naprezanju
Research on the Influence of Composite Materials on the Integrity of the Supporting Structure of the Machine Exposed to Variable Stress

R. Jovičić, S. Petronić, S. Sedmak, U. Tatić, K. Jovičić

Ocena integriteta rezervoara sa mikroprrslinama u zavarenom spoju
Integrity Assessment of Tanks with Microcracks in Welded Joints

N. Tomović, I. Dimić, M. Rakin, S. Putić, B. Međo

Uticaj radnih uslova na proračun čvrstoće posude pod pritiskom od austenitnog čelika prema SRPS EN 13445
Influence of Working Conditions on Strength Calculation of Pressure Vessel of Austenitic Steel According to SRPS EN 13445

S. Sedmak, M. Tošić, Lj. Milović

Dvanaest godina društva za integritet i vek konstrukcija (DIVK) Prvi deo – osnivanje i organizacija

Twelve Years of the Society for Structural Integrity and Life (DIVK) Part One – Founding and Organisation

I. Dimić, N. Tomović, J. Blažić, M. Rakin, B. Bugarski

Kontrolni proračun čvrstoće horizontalne posude pod pritiskom
Strenght Design Calculation of Horizontal Pressure Vessel

Z. Radaković, M.O. Abukhres, A. Sedmak, I. Ivanović, B. Petrovski

Direktno merenje J integrala na posudi pod pritiskom
Direct Measurment of the J Integral on a Pressure Vessel

A.M.M. Eramah, S. Tadić, A. Sedmak

Ponašanje legure Al-Mg frikciono zavarene mešanjem pri udarnom lomu
Impact Fracture Response of Friction Stir Welded Al-Mg Alloy

D. Živojinović, A. Sedmak, A. Grbović

Analiza rasta prsline u zonama spoja frikciono zavarenog mešanjem korišćenjem proširene metode konačnih elemenata
Crack Growth Analysis in Frikction Stir Welded Joint Zones Using Extended Finite Element Method

D. Daničić, S. Sedmak, I. Blačić, S. Kirin

Scenario razvoja loma u rotorskom bageru
Scenario of Fracture Development in Bucket Wheel Excavator

S. Kirin, M. Pantelić, I. Miljanović, V. Talović

Upravljanje rizikom mašina u otvorenim rudničkim kopovima
Risk Management of Machines in Open Pit Mines

M. Tošić, Lj. Milović, S. Sedmak

Dvanaest godina Društva za Integritet i Vek Konstrukcija (DIVK). Drugi deo – aktivnosti DIVK
Twelve Years of the Society for Structural Integrity and Life (DIVK). Part Two – DIVK Activities

S. Novoselac, D. Kozak, T. Ergić, I. Šimić

Uticaj gradijenata napona na zamor vijčane veze pod dejstvom različitih predopterećenja i odnosa cikličnih opterećenja

Influence of Stress Gradients on Bolted Joint Fatigue Behaviour Under Different Preloads and Cyclic Loads Ratio

M. Ćosić, B. Folić, R. Folić, S. Sedmak

Seizmička analiza stanja nadvožnjaka autoputa E75 kod Kovilja

Performance-Based Seismic Analysis of Overpass Over Highway E-75 by Kovilj

A. Sedmak, D. Radu

Zavareni spojevi rešetkastih nosača – greške u izradi i rešavanje ojačanja

Truss Beams Welded Joints – Manufacturing Imperfections and Strengthening Solutions

R. Jovičić, M.M. Algool, U. Tatić, O. Popović, U. Lukić, M. Burzić

Ocena integriteta rezervoara posle uklanjanja prslina iz zavarenog spoja

Storage Tank Integrity Assessment after the Removal of Weld Cracks

N. Trišović, M. Pavišić

Vejvleti (talasići) – pregled primene vibracija vejvleta

Wavelets - An Overview of Vibration-Related Applications

I. Čamagić, Z. Burzić, A. Sedmak, N. Vasić, B. Ćirković, M.M. Algool

Uticaj mehaničkih osobina i heterogenosti mikrostrukture konstituenata zavarenog spoja na osobine zatezanja i žilavosti loma u uslovima ravne deformacije, K_{Ic}

Influence of Mechanical Properties and Microstructural Heterogeneity of Welded Joint Constituents on Tensile Properties and Fracture Toughness at Plane Strain, K_{Ic}

J. Lozanović-Šajić, S. Petrović, V. Radonjić

Sprečavanje kvara motora sa detekcijom izostanka paljenja

Prevention of Engine Failure with Misfire Detection

G. Pluvinage, J. Capelle, M. Hadj Méliani

Pregled uticaja graničnih uslova na žilavost loma

A Review of the Influence of Constraint on Fracture Toughness

M. Benisa, G.H. Senussi

Istraživanje mehaničkih osobina paketa nanostrukture legure Al-6082 proizvedene ecap termomehaničkom obradom

Investigation of Mechanical Properties for Bulk Nanostructure of Al-6082 Alloy Material Produced by Equal-Channel Angular Pressing (ECAP)

E. Linul, T. Voiconi, L. Marsavina

Određivanje žilavosti loma mešovitog tipa kod PU pena

Determination of Mixed Mode Fracture Toughness of PUR Foams

S. Novoselac, D. Kozak, T. Ergić, D. Damjanović

Procena zamornog oštećenja vijčanog spoja pod dejstvom različitih sila pritezanja i ekscentričnih sila s promenjivom amplitudom za visoku pouzdanost

Fatigue Damage Assessment of Bolted Joint Under Different Preload Forces and Variable Amplitude Eccentric Forces for High Reliability

S.V. Galatanu, N. Faur, D.R. Pascu

Mehaničke osobine zone uticaja toplote na makro- i mikrostrukturnom nivou primenom simulacije toplotnog ciklusa

Mechanical Properties of Heat Affected Zones at Macro-Microstructural Level, Using Thermal Cycle Simulation

C. Besleaga, R.M. Negriu, S.G. Badea

Slučaj loma vagonске osovine

Case Study on the Breaking of a Rail Axle

M. Arsić, M. Burzić, R.M. Karić, B. Vistać, Z. Savić

Metodologija reparacije grešaka na unutrašnjim površinama glavčine sprovodnog aparata hidroelektrične generatorske jedinice hidroelektrane Djerdap 1

Methodology for Repairing Defects on Internal Surfaces of Cranks of Guide Vane Apparatus in Hydroelectric Generating Set at Hydropower Plant Djerdap 1

M. Stašević, S. Maksimović, K. Gerić, M. Maksimović, I. Vasović

Metodologija procene preostalog veka elemenata konstrukcije tornja postrojenja za istraživanje nafte i gasa

Methodology for Residual Life Estimation of Damaged Structural Elements of the Tower Installations for Oil and Gas Exploration

G. Bakić, V. Šijački-Žeravčić, M. Djukić, B. Rajičić, M. Radović, I. Gajić, A. Maslarević, A. Jakovljević

Karakterizacija raznorodnog zavarenog spoja izrađenog od X20CrMoV121 čelika posle produžene eksploatacije

Characterisation of Undermatch Welded Joint of X20CrMoV121 Steel After Prolonged Service

D. Arsić, V. Lazić, S. Aleksandrović, R. Nikolić, P. Marinković, M. Đorđević, N. Ratković

Teorijsko-eksperimentalna analiza loma odgovornog mašinskog dela

Theoretical-Experimental Fracture Analysis of a Responsible Machine Part

M. Katinić, D. Kozak, P. Konjatić, D. Damjanović

Numerička analiza elastičnosti interakcije dvojnih ivičnih prslina u konačnoj zategnutoj ploči
A Numerical Elastic Analysis on the Interaction of Twin Edge Cracks in a Finite Plate Under Tension

S. Petronić

Uticaj transparentnog sloja na promene u mikrostrukturi Nimonic 263 legure tokom mehaničke obrade laserom
Transparent Layer Influence on Microstructural Changes of Nimonic 263 in Laser Shock Peening Processing

J. Đoković, R. Nikolić, D. Ilić, J. Vičan

Dinamički rast prsline na elastično-plastičnom bimaterijalnom interfejsu
Dynamic Crack Growth Along the Elastic-Plastic Bimaterial Interface

M. Ristić, M. Ognjanović

Integritet zupčastih prenosnika snage prikazan kroz pouzdanost za dizajn
Integrity of Gear Transmission Units Indicated by Reliability for Design

C. Sosdean, D. Gubencu, G. DeSchutter, L. Marsavina

Eksperimentalno određivanje penetracije hlorida u betonu sa realnim prslinama
Experimental Determination of Chloride Penetration in Concrete with Real Cracks

L. Reis, V. Anes, M. Freitas

Analiza ciklusa opterećenja sa procenom veka pri višeosnom zamoru
Loading Cycle Analysis Regarding Multiaxial Fatigue Life Assessment

B.S. Younise, A. Sedmak

Micromechanical Study of Ductile Fracture Initiation and Propagation on Welded Tensile Specimen with a Surface Pre-Crack in Weld Metal

G.C. Rana, H.S. Jamwal

The Onset of Thermal Instability of Viscoelastic Rotating Fluid Permeated with Suspended Particles in Porous Medium

U. Tatić, V. Miletić, S. Sedmak, N. Mitrović, A. Eždenci, L. Gubelj, M. Milošević

Influence of the Cavity Shape in Restorative Dentistry on the Stress-Strain Distribution in Dentine and Enamel Caused by Polymerization

E. Rakipovski, A. Grbović, G. Kastratović, N. Vidanović

Primena proširene metode konačnih elemenata na procenu zamornog veka višestruko oštećene vazduhoplovne konstrukcije

Application of Extended Finite Element Method for Fatigue Life Predictions of Multiple Site Damage in Aircraft Structure

J. Djoković, R. Nikolić, D. Ilić, J. Bunak

Skretanje prsline sa interfejsa u uslovima dinamičkog rasta

Crack Kinking Away From the Interface in Dynamic Growth Conditions

J. Djoković, R. Nikolić, B. Hadzima

Uticaj zaostalih napona na skretanje prsline u međupovrš dva materijala

Influence of Residual Stresses on the Crack Deflection Into the Interface Between the Two Materials

V. Lazić, A. Sedmak, I. Samardžić, S. Aleksandrović, D. Arsić, D. Milosavljević, M. Đorđević

Određivanje smicajne čvrstoće navarenih uzoraka upotrebom specijalnog alata na univerzalnoj mašini za ispitivanje

Shear Strength Testing of Hardfaced Samples Using Special Tool on an Universal Testing Machine

T. Pankaj

Analiza termičkih napona puzanja kod poprečnog debelozidog cilindra opterećenog na pritisak

Analysis of Thermal Creep Stresses in Transversely Thick-Walled Cylinder Subjected to Pressure

R. Jovičić, S. Sedmak, U. Tatić, U. Lukić, M. Walid

Naponsko stanje oko grešaka u zavarenom spoju

Stress State Around Imperfections in Welded Joints

E. Veg, A. Sedmak N. Gubeljak

Eksperimentalna i numerička uporedna modalna analiza konstrukcije poda u termoelektrani

Experimental and Numerical Cross-Correlated Modal Analysis of the Floor Structure Dynamics in a Thermal Power Plant

E. Doncheva, A. Sedmak

Numerička analiza raspodele napona u polikristalnoj mikrostrukturi

Numerical Analysis of Stress Distribution in Polycrystalline Microstructure

M. Aleksić, A. Savić, I. Vasiljević

Primena 3D laserskog skeniranja u statičkoj analizi konstrukcija

Application of 3D Laser Scanning in Static Analyses of Structures

H. Dascau, S. Kirin, A. Sedmak, A. Eramah, S. Tadić

Otpornost prema prslinama spojeva legura aluminijuma zavarenih trenjem sa mešanjem

Crack Resistance of Aluminium Alloy Friction Stir Welded Joint

M. Balać, A. Grbović, A. Petrović

Numeričke procene rasta prsline na posudi pod pritiskom sa zavarenim priključcima

Numerical Predictions of Crack Growth in a Pressure Vessel with Welded Nozzles

S. Kirin, M. Božić, M. Brzaković, I. Vucetic

Izazovi budućih istraživanja u oblasti industrijske bezbednosti
Challenges of Future Research in the Area of Industrial Safety

P. Stanojević, A. Jovanović, S. Kirin, M. Misita, B. Orlić, S. Eremić

Neka od dostignuća u implementaciji RBIM u skladu sa RIMAP pristupom
Some Achievements in RBIM Implementation According to RIMAP Approach

V. Milisavljević, D. Zlatanović, S. Sedmak, M. Ljubojev

Uticaj zone loma iznad podzemne prostorije na opterećenje konstrukcije sa visećom podgradom
Impact of a Failure Zone Above the Underground Roadway on Rockbolting Structure Loading

A. Brkić, T. Maneski, V. Spasojević-Brkić, T. Golubović

Unapređenje industrijske bezbednosti kranskih kabina
Industrial Safety Improvement of Crane Cabins

P. Kovač, D. Rodić, B. Savković, V. Pucovsky, M. Gostimirović

Modeliranje habanja alata u cilju izbegavanja rizika od loma alata primenom fazi logike
Modelling Tool Wear in Avoiding the Risk of Breakage by Using Fuzzy Logic

D. Veljić, A. Sedmak, M. Rakin, N. Radović, N. Popović, H. Daşcau, N. Bajić

Prednosti zavarivanja trenjem sa mešanjem u odnosu na elektrolučno zavarivanje - zaštita zdravlja, životne sredine i bezbednost na radu
Advantages of Friction Stir Welding over Arc Welding with Respect to Health and Environmental Protection and Work Safety

S. Kirin, P. Stanojević, I. Miljanović, A. Sedmak, T. Perić, P. Ilić

Uticaj ljudskog faktora na rizik u rudniku površinskog kopa
Influence of the Human Factor on Risks in an Open-Pit Mine

E. Doncheva, B. Medjo, A. Sedmak

Analiza parametara otpornosti na lom metodom konačnih elemenata, kod stacionarnih polueliptičnih prslina u čeliku povišene čvrstoće
Finite Element Analysis of Fracture Resistance Parameters for Stationary Semi-Elliptical Surface Cracks in High Strength Steel

T. Pankaj, S.B. Singh, J. Lozanović Šajić

Termo-elastoplastična deformacija čvrstog diska sa izvorom toplote opterećenim na pritisak
Thermo Elastic-Plastic Deformation in a Solid Disk with Heat Generation Subjected to Pressure

Ž. Lazarević, I. Arandelović, S. Kirin

Analiza slučajnih mašinskih otkaza rotornog bagera
An Analysis of Random Mechanical Failures of Bucket Wheel Excavator

S.A. Sedmak, M. Arsić, D. Bajić, M. Mladenović, Z. Savić, S. Koprivica

Analiza uzroka degradacije osnovnog materijala i metala šava račve na hidroelektrani 'Perućica'
Analysis of Causes of Degradation of Parent Material and Weld Metal of Breeches Pipe at Hydroelectric Power Plant 'Perućica'

S. Petronić, M. Burzić, D. Milovanović, K. Čolić, S. Perković

Površinska obrada laserom zavarenih nimonik 263 limova
Surface Modification of Laser Welded Nimonic 263 Sheets

A. Saaidia, A. Bezazi, A. Belbah, S. Amroune, F. Scarpa

Procena mehaničkih svojstava prediva konoplje primenom dvo- i tro-parametarskog vejbulovom metoda
Evaluation of Mechanical Properties of Jute Yarns by Two- and Three- Parameters Weibull Method

K. Legweel, A. Sedmak, K. Čolić, Z. Burzić, L. Gubeljak

Određivanje širine zone konačnog razvlačenja MP35N višefazne legure
Final Stretch Zone Width Determination for MP35N Multiphase Alloy

D. Kalaba, M. Đorđević, V. Ivanović

Određivanje funkcija pouzdanosti cevnog sistema kotla u termoelektrani 'nikola tesla, blok A4'
Determining the Reliability Functions of the Boiler Tubing System in Power Plant 'Nikola Tesla, Block A4'

M. Ristić, R. Prokić-Cvetković, B. Katavić, I. Vasović

Izbor tehnologija navarivanja usisnih ploča ventilacionog mlina i produžetak njihovog radnog veka
Selecting Hardfacing Technologies for Ventilation Mill Suction Plates and Extending its Working Life

A. Živković, A. Đurđević, A. Sedmak, S. Tadić, I. Jovanović, Đ. Đurđević, K. Zammit

Zavarivanje trenjem sa mešanjem aluminijumskih legura – T spojevi
Friction Stir Welding of Aluminium Alloys – T Joints

A.C. Murariu, S. Crâșteți, A.V. Bîrdeanu

Metoda aktivne infracrvene termografije za ispitivanje bez razaranja slojeva prevlake
Active Infrared Thermography Method for Non-Destructive Examination of Coating Layers

D. Kalaba, M. Đorđević, S. Kirin, C. Delamarian

Određivanje funkcija pouzdanosti parne turbine u termoelektrani 'Nikola Tesla, blok A4'
Determining Reliability Functions of Steam Turbine in Power Plant 'Nikola Tesla, Block A4'

A.C. Murariu, Z. Golubović, A. Sedmak, D. Kreculj

Zatezanje polietilena pri različitim brzinama opterećenja u prisustvu grešaka
Tensile Behaviour of Polyethylene Under Different Loading Rate in the Presence of Imperfections

B. Bobić, B. Jegdić, B. Jugović, J. Stevanović, B. Gligorijević, A. Murariu

Lomovi kondenzatorskih cevi od mesinga
Failures of Brass Condenser Tubes

M. Ćosić, N. Šušić, R. Folić, R. Bancila

Probabilistička analiza nosivosti stubova sa promenljivim parametrima CPT ispitivanja i proračuna u skladu sa propisima eurokoda 7 (EN 1997-1:2004)
Probabilistic Analysis of Bearing Capacity of Piles with Variable Parameters in CPT Test and Calculation According to the Requirements of Eurocode 7 (EN 1997-1: 2004) Regulations

J. Djoković, R. Nikolić, J. Bujnak, A. Sedmak

Uticaj geometrije šava na vek cilindričnih zavarenih spojeva
Influence of Weld Geometry on Cylindrical Welded Joint Life

A. Mitrović, V. Miljković, D. Popović, Dj. Koruga

Mehaničke karakteristike nanofotoničnih mekih kontaktnih sočiva na bazi poli (2-hidroksietil metakrilata) i fullerena
Mechanical Properties of Nanophotonic Soft Contact Lenses based on Poly (2-Hydroxyethyl Methacrylate) and Fullerenes

M. Ćetković, L. György

Termo-elastična stabilnost laminata sa vlaknima pod proizvoljnim uglom - primena slojevitih konačnih elemenata
Thermo-Elastic Stability of Angle-Ply Laminates – Application of Layerwise Finite Elements

I. Martić, A. Sedmak, R. Tomić, I. Hot

Procena preostalog veka posude pod pritiskom u rafineriji
Remaining Life Determination for Pressure Vessel in a Refinery

A. Milovanović, A. Sedmak, R. Tomić, I. Hot, I. Martić

Proračun lokalnih napona u ispupčenom dancu vertikalne posude pod pritiskom usled opterećenja osloncem – „suknjom“ prema EN 13445-3:2014
Calculation of local loads in torispherical end of vertical vessel with skirt according to EN 13445-3:2014

Z. Đorđević

Nematerijalna materijalnost: akustičko nasleđe u arhitekturi
Intangible Tangibility: Acoustical Heritage in Architecture

B. Medjo, M. Arsić, M. Rakin, S.A. Sedmak, Z. Malešević, Z. Savić

Ocena integriteta elemenata sistema cevovoda za regulaciju na hidroelektričnom generatoru A6 na hidroelektrani 'Djerdap 1'

Integrity Assessment of Regulation System Pipeline Elements in Hydroelectric Generating Set A6 of Hydro Power Plant 'Djerdap 1'

I. Rakonjac, I. Rakonjac, N. Fotirić, I. Rajković, M. Gašić

Analiza svetlosnih karakteristika u eksploatacionom veku instalacije osvetljenja

Lighting Features Life Cycle Analysis for a Lighting System

B. Jegdić, B. Bobić, J. Stevanović, B. Alić

Metode ispitivanja interkristalne korozije na konstrukcijama od nerđajućih čelika na terenu

Field Applicable Methods for Intergranular Corrosion Testing of Stainless Steels Structures

S. Baloš, D. Rajnović, D. Labus Zlatanović, M. Dramićanin, L. Šidanin, M. Rakita, P. Skakun

Analiza loma poluosovine kombajna

Failure of a Combine Harvester Front Axle

N. Gupta, P. Thakur, S.B. Sing

Matematička metoda za određivanje brzine toplotne deformacije i pomeranja kod debeloizidne sferne ljuske

Mathematical Method to Determine Thermal Strain Rates and Displacement in a Thick-Walled Spherical Shell

N. Gupta, P. Thakur, S.B. Sing

Modeliranje puzanja kod rotirajućeg diska promenljive debljine od kompozita u prisustvu zaostalih napona

Creep Modelling in a Composite Rotating Disc with Thickness Variation in the Presence of Residual Stress

S. Petronić, R. Jovičić, O. Erić-Cekić

Klasifikacija opreme pod pritiskom prema direktivi 2014/68/EU i regulativi 1272/2008/EU

Classification of pressure equipment according to directive 2014/68/EU and regulation No 1272/2008/EU

D. Kozak, D. Damjanović, M. Katinić

Procena integriteta sučeonog zavarenog spoja sa greškom prema EN ISO 6520-1, serija 400

Integrity Assessment of the Butt Weld Joint with Defect According to EN ISO 6520-1, Series 400

V. Miljković, A. Mitrović, D. Stamenković, D. Popović, Dj. Koruga

Monte Karlo simulacija prolaska svetlosti kroz sočivo

Monte Carlo Simulation of Light Transport Through Lens

M. Pavišić

Neke nedoslednosti u projektovanju i proračunu mikrošipova
Some Inconsistency in Micropiles' Design and Calculation

P. Thakur, S. Kumar, J. Singh, S.B. Singh

Uticaj parametra promene gustine kod čvrstog diska
Effect of Density Variation Parameter in a Solid Disk

M. Arsić, S. Bošnjak, S.A. Sedmak, Ž. Šarkoćević, Z. Savić, D. Radu

Utvrđivanje oštećenja i metodologija popravke revizionog otvora na kaplanovoj turbini hidroelektrane "Djerdap 1"
Determination of Damage and Repair Methodology for the Runner Manhole of Kaplan Turbine at the Hydro Power Plant 'Djerdap 1'

P. Thakur, S. Kumar

Proračun napona u transversalno izotropnom kružnom disku sa uključkom
Stress Evaluation in a Transversely Isotropic Circular Disk with an Inclusion

I. Grozdanović, N. Trišović, W. Li

Efekte šuma i unutrašnjeg kašnjenja na koherentne oscilacije u slučaju dva stohastička dinamička sistema sa kašnjenjem
Effects of Noise and Internal Delay on Coherent Oscillations in Two Stochastically Perturbed Delayed Dynamical Systems

S.A. Sedmak, M. Arsić, S. Bošnjak, Z. Malešević, Z. Savić, D. Radu

Uticaj lokalno oštećenih delova cevni lukova na integritet i pouzdanost toplovoda
Effect of Locally Damaged Elbow Segments on the Integrity and Reliability of the Heating System

I. Rak

Procena žilavosti u hiperbaričnim reparaturnim spojevima zavarenim u ekstremnim uslovima CTOD metodom
CTOD Toughness Evaluation of Hyperbaric Repair Welds Made Under Severe Conditions

I. Čamagić, S. Jović, M. Radojković, S.A. Sedmak, A. Sedmak, Z. Burzić, C. Delamarian

Uticaj temperature i vremena eksploatacije na ponašanje zavarenog spoja pri delovanju udarnog opterećenja
Influence of Temperature and Exploitation Period on the Behaviour of a Welded Joint Subjected to Impact Loading

R. Jovičić, Z. Radaković, S. Petronić, E. Džindo, K. Jovičić Bubalo

Inspekcija, ispitivanje bez razaranja i reparacija zavarene opreme pod pritiskom
Inspection, Non-Destructive Tests and Repair of Welded Pressure Equipment

A. Kraedegh, W. Li, A. Sedmak, A. Grbović, N. Trišović, R. Mitrović, S. Kirin

Simulacija rasta zamorne prsline u A2024-T351 T zavarenom spoju
Simulation of Fatigue Crack Growth in A2024-T351 T Welded Joint

A. Sghayer, A. Grbović, A. Sedmak, M. Dinulović, E. Doncheva, B. Petrovski

Analiza zamornog veka integralnog panela sa ojačanjem primenom XFEM
Fatigue Life Analysis of the Integral Skin-Stringer Panel Using XFEM

M. Aldarwish, A. Grbović, G. Kastratović, A. Sedmak, N. Vidanović

Numeričko određivanje faktora intenziteta napona na vrhu višestrukih prslina u neojačanim panelima
Numerical Assessment of Stress Intensity Factors at Tips of Multi-Site Cracks in Unstiffened Panel

B. Bobić, B. Jegdić, M. Burzić, Z. Damnjanović

Ispitivanje otpornosti prema koroziji čelika Sa 387 GR. 91
Corrosion Testing of Sa 387 GR. 91 Steel

M. Milošević, G. Mladenović, A. Sedmak, A. Plohar, B. Likozar

Dizajn i proizvodnja reformera za gorivne ćelije sa polimerskom elektrolitnom membranom
Design and Manufacture of Reformer in Polymeric Electrolyte Membrane Fuel Cell

S. Mohamed, M. Hadj Meliani, El-Miloudi Khaled, C. Fares, M.A. Benghalia

Uticaji korozije i zelenih Inhibitora na karakteristike mehanike loma kod gasovoda
Corrosion Effects and Green Scale Inhibitors in the Fracture Mechanics Properties of Gas Pipelines

I. Žmak, V. Vurnek, J. Šundrica

Morfologija i savojne karakteristike biokompozita od Miscanthus $\times$ giganteus u poliesterskoj smoli
Morphology and Flexural Properties of Biocomposites from Miscanthus x Giganteus in Polyester Resin

Pankaj Thakur, D.S. Pathania, G. Verma, S.B. Singh

Elastoplastična analiza napona sferne ljuske pri dejstvu unutrašnjeg pritiska i ravnomerne temperature
Elastic-Plastic Stress Analysis in a Spherical Shell Under Internal Pressure and Steady State Temperature

A. Đurđević, S. Tadić, I. Ivanović, H. Dascau, Đ. Đurđević

Numerička analiza prenosa toplote pri zavarivanju trenjem sa mešanjem
Numerical Analysis of Heat Transfer During Friction Stir Welding

A. Sharma, R.K. Bawa

Višekriterijumski hibridni pristup u izboru metode agilnog razvoja primenom AHP, PROMETHEE i fazi logike
A Multilevel Hybrid Approach for Selection of Agile Development Method using AHP, PROMETHEE and Fuzzy Logic

M. Dojčinović, M. Arsić, S. Bošnjak, A. Murariu, Z. Malešević

Otpornost prema kavitaciji lopatica radnog kola turbine u hidroelektrani "Djerdap"
Cavitation Resistance of Turbine Runner Blades at the HydroPower Plant 'Djerdap 1'

V. Aleksić, Lj. Milović, B. Aleksić, S. Bulatović, Z. Burzić, A.M. Hemer

Niskociklični zamor uzoraka čelika Nionikral 70
Behaviour of Nionikral-70 in Low-Cycle Fatigue

P. Milosavljević, G. Grujić, V. Đuričković

Ruđer Bošković i primena koncepta Platonovog geometrijskog broja pri analizi oštećenja i sanaciji kupole bazilike Svetog Petra u Vatikanu
Ruggiero Boscovich and Application of Plato's Geometrical Number Concept in Damage Analysis and Repair of the Dome of St. Peter's Basilica in Vatican City

Pankaj Thakur, G. Verma, D.S. Pathania, S.B. Singh

Analiza puzanja u nehomogenoj sfernoj ljusci
Thermal Creep Analysis in Non-Homogeneous Spherical Shell

Pankaj Thakur, S. Kumar, J. Singh

Naponi puzanja u rotirajućem disku promenljive gustine koji je opterećen mehanički na stacionarnoj temperaturi
Creep Stresses in a Rotating Disc Having Variable Density and Mechanical Load Under Steady-State Temperature

S. Sharma

Analiza napona u elastoplastičnim debelozidnim cilindričnim posudama pod pritiskom sa temperaturom
Stress Analysis of Elastic-Plastic Thick-Walled Cylindrical Pressure Vessels Subjected to Temperature

Ramesh Chand, G. C. Rana

Termička nestabilnost maksvel-viskoelastičnog nanofluida u poroznoj sredini sa toplotnom provodljivošću i promenljive viskoznosti
Thermal Instability of Maxwell Visco-Elastic Nanofluid in a Porous Medium with Thermal Conductivity and Viscosity Variation

V. Gupta, S.B. Singh

Puzanje kod rotacionog diska u prisustvu gradijenata čestica i temperature
Creep Behaviour in a Rotating Disc in the Presence of Particle and Thermal Gradients

N. Milovanović, B. Đorđević, U. Tatić, S.A. Sedmak, S. Štrbački

Nisko-temperaturna koroziona oštećenja cevi donje ploče kotla i njihova reparacija
Low-Temperature Corrosion Damage and Repair of Boiler Bottom Panel Tubes

D. Tanasković, B. Đorđević, U. Tatić, S.A. Sedmak, M. Gajin

Stvaranje prslina navarivanjem na trajber rolni
Cracking Due to Repair Welding of the Treiber Roll

A. Milovanović, A. Sedmak, K. Čolić, U. Tatić, B. Đorđević

Numerička analiza raspodele napona u totalnoj zameni zgloba kuka
Numerical Analysis of Stress Distribution in Total Hip Replacement Implant

M. Reljić, B. Lazić, J. Stepanović, D. Đorđić

Termofiziološke karakteristike pletenina za izradu sportskog veša
Thermo-Physiological Properties of Knitted Fabrics for Sports Underwear

K.A. Eldwaib, A. Grbović, G. Kastratović, D. Radu, S.A. Sedmak

Procena zamornog veka CCT uzorka primenom PMKE
Fatigue Life Estimation of CCT Specimen Using XFEM

M. Jelić

Zajedničke karakteristike glavnih doprinosa Ruđera Boškovića, Milutina Milankovića i Branka Žeželja razvoju građevinarstva
Common Characteristics of Main Contributions of Roger Bosovich, Milutin Milanković and Branko Žeželj to the Development of Civil Engineering

P. Thakur, D.S. Pathania, G. Verma, J. Lozanović-Šajić

Nehomogeni efekat u sfernoj ljusci primenom teorije Seta

Non-Homogeneity Effect in the Spherical Shell by Using Seth's Theory

P. Thakur

Naponi usled puzanja u kružnom cilindru opterećenim na torziju

Creep Stresses in a Circular Cylinder Subjected to Torsion

S. Sharma

Prelazni naponi puzanja pri savijanju funkcionalne kompozitne transversalno izotropne četvorougaoe ploče

Creep Transition in Bending of Functionally Graded Transversely Isotropic Rectangular Plates

S. Sharma, P. Thakur, R. Sharma, R.K. Bhardwaj, Z. Radaković

Termo-elastično-plastični prelazni naponi pri torziji kompozitnog debelozidnog kružnog cilindra pod pritiskom

Elastic-Plastic Transition in Torsion of Composite Thick-Walled Circular Cylinder Subjected to Pressure

K. Maksimović, I. Vasović, M. Maksimović, D. Stamenković, D. Turnić

Optimizacija elemenata vazduhoplovnih konstrukcija

Optimal Design of Aircraft Structural Components

K. Čolić, N. Gubeljak, M. Burzić, A. Sedmak, T. Mijatović, A. Milovanović

Ispitivanje ponašanja pri lomu tankih ploča od nerđajućeg čelika S316L

Analysis of Fracture Behaviour of Thin S316L Stainless Steel Plates

S.A. Sedmak, R. Jovičić, A. Sedmak, B. Đorđević, I. Čamagić

Numerička analiza zavarenih spojeva različitih geometrija u slučaju preklopnog spoja na cisterni za transport amonijaka

Numerical Analysis of Different Weld Geometries of Lap Welded Joint in Ammonia Transport Tanks

M. Kozić, S. Ristić, B. Katavic, B. Jegdić, M. Prvulović, M. Prokolab, S. Linić

Poboljšanje otpornosti na habanje udarnih ploča ventilacionog mlina u termoelektrani primenom numeričke simulacije strujanja

Wear Resistance Improvement of Thermal Plant Fan Mill Impact Plates Based on Numerical Flow Simulation

I. Svetel, M. Jarić, N. Budimir

Očekivanja, realnost i perspektive u korišćenju BIM tehnologija u projektovanju energetski efikasnih zgrada

Expectations, Reality and Perspectives in Using BIM for Green Building Design

Đ. Đurđević, N. Anđelić, T. Maneski, A. Đurđević

Numerička analiza stanja napona i deformacije konstrukcionih elemenata kontejnerskog terminala

Numerical Analysis of Stress and Strain State of Container Terminal Structural Elements

I. Čamagić, S. Sedmak, A. Sedmak, Z. Burzić, A. Todić

Uticaj temperature i vremena eksploatacije na žilavost loma K_{Ic} pri ravnom stanju deformacije u zavarenom spoju

Impact of Temperature and Exploitation Time on Plane Strain Fracture Toughness, K_{Ic} , in a Welded Joint

I. Vučetić, S. Kirin, T. Vučetić, T. Golubović, A. Sedmak

Analiza rizika u slučaju havarije rezervoara za vazduh u RHE Bajina Bašta
Risk Analysis in the Case of Air Storage Tank Failure at RHPP Bajina Bašta

R. Sharma, S. Sharma, Z. Radaković

Termička analiza pužanja cilindričnih debelozidih posuda pod pritiskom
Thermal Creep Analysis of Pressurized Thick-Walled Cylindrical Vessels

P. Thakur, P. Mahajan, S. Kumar

Naponi pužanja i brzina deformacije u transverzalno izotropnom disku promenljive debljine izloženom unutrašnjem pritisku
Creep Stresses and Strain Rates for a Transversely Isotropic Disc of Variable Thickness Under Internal Pressure

A. Kumar, D.S. Pathania

Analiza ravnih deformacija kod termodifuzionih mikrorastegljivih i mikropolarnih sredina u okviru GL i LS teorija termoelastičnosti
Analysis of Plane Deformation in Thermo-Diffusive Microstretch & Micropolar Media in Context of GL and LS Theories of Thermoelasticity

S. Sharma, S. Yadav, Z. Radaković

Konačna deformacija pužanja debelozidog kružnog cilindra promenljive stišljivosti pod spoljnim pritiskom
Finite Creep Deformation in Thick-Walled Circular Cylinder with Varying Compressibility Under External Pressure

P. Manimaran, P. Senthamarai Kannan, M.R. Sanjay, C. Barile

Poređenje osobina vlakana biljaka azadirachta indica i acacia arabica za primene kod lakih kompozita
Comparison of Fibre Properties of Azadirachta Indica and Acacia Arabica Plant for Lightweight Composite Applications

S. Petronić, A.-V. Birdeanu, R. Jovičić, K. Čolić, D. Vašalić, O. Erić-Cekić

Uticaj mehaničkih osobina austenitnih čelika na dozvoljene napone i debljine zida opreme pod pritiskom
Impact of Austenitic Steels' Mechanical Properties on Allowed Stress and Wall Thickness of Pressure Equipment

B. Međo, M. Arsić, M. Rakin, S.A. Sedmak, Z. Savić

Ocena integriteta nosećih greda koje omogućavaju zajednički rad dve mostne dizalice
Integrity Assessment of Vital Beam Components that Enable Conjoint Operation of Two Bridge Cranes

M. Ashiquzzaman, M.T. Islam

Određivanje čvrstoće betona primenom betonskih jezgara manjih prečnika radi procene integriteta konstrukcije

Defining Concrete Strength Using Smaller Diameter Concrete Cores in Structural Safety

V.I. Rizov

Raslojavanje kod višeslojnih funkcionalnih kompozitnih nosača –analitička studija sa primenom relacije Ramberg-Osgood
Delamination in Multilayered Functionally Graded Beams – An Analytical Study by Using the Ramberg-Osgood Equation

S.A. Sedmak, R. Jovičić, A. Sedmak, M. Arandelović, B. Đorđević

Uticaj prisustva više vrsta grešaka u zavarenom spoju opterećenim na zamor u skladu sa standardom SIST EN ISO 5817:2014
Influence of Multiple Defects in Welded Joints Subjected to Fatigue Loading According to SIST EN ISO 5817:2014

S. Sharma, S. Yadava, R. Sharma

Puzanje pri uvijanju cilindričnih debelozidih posuda pri unutrašnjem i spoljnom pritisku
Creep Torsion in Thick-Walled Circular Cylinder Under Internal and External Pressure

L. Jeremić, B. Đorđević, S.A. Sedmak, A. Sedmak, M. Rakin, M. Arandelović

Uticaj navarivanja plazmom i prisustva karbida na pojavu prslina i mikroprslina
Effect of Plasma Hardfacing and Carbides Presence on the Occurrence of Cracks and Microcracks

Lj. Janjušević

Rad Mihaila Petrovića na razvoju vojnih konstrukcija i opreme
Mihailo Petrović's Work on Development of Military Structures and Equipment

S. Sharma, R. Panchal

Naponi puzanja u rotirajućem ortotropnom cilindru od funkcionalnih kompozita promenljive debljine i gustine pri unutrašnjem i spoljnom pritisku
Creep Stresses in Functionally Graded Rotating Orthotropic Cylinder with Varying Thickness and Density Under Internal and External Pressure

A. Kumar, D.S. Pathania, S. Singh

Termomehaničko ponašanje mikrorastegljivog termoelastičnog tela sa mikrotemperaturama pod dejstvom izvora toplote
Thermo-Mechanical Behaviour of Microstretch Thermoelastic Medium with Microtemperatures Subjected to Input Heat Source

P. Thakur, M. Sethi, S.D. Shahi, S.B. Singh, F.S. Emmanuel

Tačno rešenje problema rotirajućeg diska sa osovinom promenljive gustine i debljine pri elastoplastičnim naponima
Exact Solution of Rotating Disc with Shaft Problem in the Elastoplastic State of Stress Having Variable Density and Thickness

P. Thakur, M. Sethi, S.D. Shahi, S.B. Singh, F.S. Emmanuel, J. Lozanović Šajić

Modeliranje puzanja rotirajućeg diska sa opterećenjem i promenljivom debljinom primenom teorije prelaznih napona seta
Modelling of Creep Behaviour of a Rotating Disc in the Presence of Load and Variable Thickness by Using Seth Transition Theory

A. Ghouaoula, A. Hocine, D. Chapelle, M.L. Boubakar, M. Hadj Meliani

Analitičko predviđanje ponašanja oštećenih kompozitnih cevni konstrukcija pri kvazistatičkom opterećenju
Analytical Prediction of Behaviour of Damaged Composite Tubular Structures Under Quasi-Static Pressure

M. Amara, O. Bouledroua, M. Hadj Meliani, B.G.N. Muthanna, M. Tahar Abbes, G. Pluvina

Ocena integriteta cevi za transport CO₂ primenom dijagrama ocene loma sa ograničenjem modifikovanog CTOD
Assessment of Pipe for CO₂ Transportation Using a Constraint Modified CTOD Failure Assessment Diagram

M. Eskandarzade, A. Kalaki, A. Shahrivar

Primena i ograničenja procesa upravljanja korozijom

The Application and Limitations of Corrosion Management Process

V.I. Rizov

Delaminacija nelinearno elastičnih višeslojnih nosača od trostruko gradijentnih materijala

Delamination in Nonlinear Elastic Multilayered Beams of Triple Graded Materials

A. Foriero, Z. Bayati

Analiza izvijanja stubova ukopanih u raznim vrstama tla primenom trodimenzionalne MKE

Three Dimensional FEM Buckling Analyses of Piles Embedded in Various Soil Types

A. Milovanović, A. Sedmak

Procena integriteta balans cevi turbinskog poklopca

Integrity Assessment of Turbine Flat Cover Pipe

S. Doddamani, M. Kaleemulla

Uticaj dodatka grafita na lom i rast zamorne prsline kod Al6061-grafita

Effect of Graphite Addition on the Fracture and Fatigue Crack Growth Behaviour of Al6061-Graphite

D.S. Pathania, A. Kumar

Studija o termomehanici magnetno-mikropolarnog termoelastičnog poluprostora

A Study of Thermo-Mechanics of Magneto-Micropolar Thermoelastic Half Space

S. Nechad, A. Khelil, M. Hadj Meliani, M. Braikia, L. Loukarfi

Trodimenzionalno numeričko istraživanje vrtložnog i eliptičnog strujanja sa različitim faktorima preseka difuzora

Three-Dimensional Numerical Investigation on Swirling Jets and Elliptic Jets with Different Aspect Ratio

P. Thakur, M. Sethi

Modeliranje puzanja kod transversalnog izotropnog rotirajućeg diska sa parametrima opterećenja i gustine

Creep Damage Modelling in a Transversely Isotropic Rotating Disc with Load and Density Parameter

G. Verma, D.S. Pathania

Elastoplastična analiza napona u sfernoj ljusci pri dejstvu unutrašnjeg i spoljašnjeg pritiska
Elastic-Plastic Stress Analysis of Spherical Shell Under Internal and External Pressure

N.T. Chuc, A.K. Bui

Procena uticaja početnih parametara mešavine betona na raspodelu temperature u masi strukture betona
Evaluation of the Impact of Parameter Inputs of Concrete Mix on the Distribution of Temperature in the Mass Concrete Structure

A.A. Saleh

Istraživanje mikrostrukture i mehaničkih osobina spoja legure inconel 738 LC sa tvrdim lemom legure 5Ni 5Ti 90Al
Investigating the Microstructure and Mechanical Properties of Brazed Joint of Inconel 738 LC Alloys Bonded by 5Ni 5Ti 90Al Filler Alloy

M. Pavlović, M. Dojčinović, R. Prokić-Cvetković, Lj. Andrić

Otpornost na dejstvo kavitacije kompozita poliestarska smola/bazaltni prah
Cavitation Resistance of Composite Polyester Resin/Basalt Powdery

M. Paunić, I. Balać, A. Sedmak, K. Čolić

Numerička analiza geometrijskih karakteristika fiksacionih pločica donje vilice izrađenih od hidroksiapatitnih struktura
Numerical Analysis of Geometric Characteristics of Mandible Fixation Plates made of Hydroxyapatite Structures

V. Pilić, V. Mihajlović, P. Stanojević, A. Anđelković, D. Baloš

Primena inovativne metodologije za procenu rizika prilikom određivanja mehanizama oštećenja na primeru dela regenerativnog aminskeg postrojenja
Application of Innovative Risk Assessment Methodology for Damage Mechanisms Identification on Part of Amine Regeneration Unit

M.F. Fekaoui, P. Maspeyrot, M. Hadj Meliani, A. Youcefi

Pasivno upravljanje otpora modela konstrukcije vozila primenom poprečnih razdvojenih ploča
Passive Structural Control of a Model Car Drag by Transverse Separating Plates

S. Maksimović, M. Maksimović, K. Maksimović, I. Vasović, D. Stamenković

Numerička i eksperimentalna analiza naponskog stanja višeslojnih kompozitnih struktura pod dejstvom mehaničkog i hidrotermičkog opterećenja
Numerical and Experimental Stress Analysis of Layered Composite Structures Subject to Mechanical and Hygrothermal Loads

V. Gašić, A. Arsić, Ž. Flajs

Eksperimentalno određivanje napona čeonu momentne veze I-profila
Experimental Study on the Stresses at the I-Beam End-Plate Moment Connection

R. Tomić

Uticaj triboloških parova na oštećenje materijala i konstrukcija
Influence of Tribological Pairs on Structural and Material Damage

P. Thakur, S. Shahi, S.B. Singh, M. Sethi

Koncentracija elastoplastičnih napona kod ortotropnih kompozitnih sfernih ljuski opterećenih unutrašnjim pritiskom

Elastic-Plastic Stress Concentrations in Orthotropic Composite Spherical Shells Subjected to Internal Pressure

S.K. Paul, M. Sahni

Dvodimenzionalni mehanički naponi za cilindar pod pritiskom od funkcionalnog kompozitnog materijala

Two-Dimensional Mechanical Stresses for a Pressurized Cylinder made of Functionally Graded Material

G.C. Rana, H. Saxena, P.K. Gautam

Elektrohidrodinamička termička nestabilnost sloja porozne sredine koji je zasićen Walters (model B) elastoviskoznim nanofluidom

Electrohydrodynamic Thermal Instability in a Porous Medium Layer Saturated by a Walters' (Model B') Elastico-Viscous Nanofluid

P.D. Mehta, M. Sahni, P. Thakur

Analiza čvrstoće rotirajućeg diska od funkcionalnog kompozitnog materijala promenljive gustine i temperature

Strength Analysis of Functionally Graded Rotating Disc Under Variable Density and Temperature Loading

V.I. Rizov, H. Altenbach

Analiza podužnog loma okruglih štapova od funkcionalnog kompozita

On the Analysis of Lengthwise Fracture of Functionally Graded Round Bars

R. Kumar, D.S. Pathania, A. Kumar

Elastodinamičko ponašanje usled mehaničkih sila kod mikrozateznog termoelastičnog dvotemperaturskog poluprostora

Elastodynamic Behaviour due to Mechanical Forces in a Microstretch Thermoelastic Half-Space with Two Temperatures

P. Thakur, M. Sethi

Lebesgueova deformacija u elastoplastičnoj ljusci

Lebesgue Measure in an Elasto-Plastic Shell

T. Mijatović, M. Manjgo, M. Burzić, K. Čolić, Z. Burzić, T. Vuherer

Procena veka konstrukcije sa aspekta mehanike loma

Structural Integrity Assesment from the Aspect of Fracture Mechanics

M. Milković, T. Vuherer, N. Gubeljak

Poređenje dve metode merenja zaostalih napona u zavarenim spojevima

Comparison of Two Methods for Measuring Residual Stresses in Weldments

V. Pilić, P. Stanojević, V. Mihajlović, D. Baloš

Identifikacija mehanizama oštećenja i barijera primenom inovativne metodologije za procenu rizika na primeru postrojenja za proizvodnju vodonika

Damage Mechanism and Barrier Identification on Hydrogen Production Unit Using Innovative Methodology for Risk Assessment

M. Stašević, M. Maksimović, I. Vasović, K. Maksimović, M. Stašević

Ventilacija i protivpožarna zaštita saobraćajnog putnog tunela

Ventilation and Fire Protection of Road Traffic Tunnel

A. Mitrović, N. Mitrović, I. Tanasić, M. Milošević, D. Antonović

Merenje polja deformacija u staklenom jonomernom cementu

Strain Field Measurements in Glass Ionomer Cement

M. Sethi, P. Thakur, H.P. Singh

Karakterizacija materijala rotirajućeg diska opterećenog temperaturnim gradijentom primenom teorije prelaznih napona Seta

Characterization of Material in a Rotating Disc Subjected to Thermal Gradient by using Seth Transition Theory

S. Sharma, K. Maheshwari

Elastoplastični prelazni naponi u tankom rotirajućem ortotropnom disku promenljive debljine i gustine od funkcionalnog kompozita

Elastic-Plastic Transition in Function-ally Graded Thin Rotating Orthotropic Disk with Variable Thick-ness and Density

V. Gupta

Analiza puzanja u kompozitnom disku u prisustvu temperaturskih gradijenata

Creep Analysis in Composite Disc in the Presence of Thermal Gradients

T.H. Nguyen, H.X. Le

Praktična metoda za proračun pouzdanosti konstrukcije sa mešavinom slučajnih i fazi promenljivih

A Practical Method for Calculating Structural Reliability with a Mixture of Random and Fuzzy Variables

R. Sharma

Elastoplastični naponi u tankom rotirajućem disku od funkcionalnog kompozita sa eksponencijalnom promenom debljine pod unutrašnjim pritiskom

Elastic-Plastic Stresses in a Thin Rotating Disk of Functionally Graded Material with Exponentially Varying Thickness under Internal Pressure

S. Zahaf, N. Zina, S. Bouaziz, B. Chetti, M. Kaid, A. Abouda, Z. Najafi Vafa

Optimizacija parametara zavarivanja trenjem sa mešanjem, maksimalne temperature, fon Mizes i zaostalih napona i ekvivalentne plastične deformacije kod legure aluminijuma 6061

Optimisation of FSW Welding Parameters on Maximal Temperature, Von Mises and Residual Stresses, and Equivalent Plastic Deformation Applied to a 6061 Aluminium Alloy

P.D. Mehta, L. Mishra, M. Sahni

Termomehanička analiza napona debeloizidnog cilindra sa unutrašnjim slojem od funkcionalnog kompozita

Thermomechanical Stress Analysis of Thick-Walled Cylinder with Inner FGM Layer

L. Boukhris, M. Bouchetara

Istraživanje raspodele sila kočenja u putničkom automobilu

Research on Brake Forces Distribution in a Passenger Car

G. Pathalinga Prasad, H.C. Chittappa, M. Nagaral, V. Auradi

Uticaj veličine čestice ojačanja na pritisnu čvrstoću i udarnu žilavost LM29-B4C kompozitne legure

Effect of the Reinforcement Particle Size on the Compressive Strength and Impact Toughness of LM29 Alloy-B4C Composites

T. Mijatović, A. Milovanović, A. Sedmak, Lj. Milović, K. Čolić

Procena integriteta Ti-6Al-4V ELI implanta za totalnu zamenu zgloba kuka postupkom reverznog inženjerstva

Integrity Assessment of Reverse Engineered Ti-6Al-4V ELI Total Hip Replacement Implant

M. Arsić, S. Bošnjak, S.A. Sedmak, B. Vistić, Z. Savić

Reparacija prslina otkrivenih na livenim komponentama vertikalne kaplan turbine rotora

Repair of Cracks Detected in Cast Components of Vertical Kaplan Turbine Rotor Hub

Đ. Đurđević, N. Andelić, V. Milošević-Mitić, T. Maneski, M. Rakin, A. Đurđević

Uticaj oblika ukleštenja tankozidnih konzola oblika U i Z profila na veličinu ekvivalent. napona i deformacije

Influence of Encastering on Thin-Walled Cantilever Beams with U and Z Profiles on the Magnitude of Equivalent Stress and Deformation

S. Marković

Integrity and Life in the Process of Design and Realization in Emerging Architecture - Digital Chain Case

M. Jovanović, I. Čamagić, S.A. Sedmak, P. Živković, A. Sedmak

Crack Initiation and Propagation Resistance of HSLA Steel Welded Joint Constituents

V.V. Firsanov, Q.H. Doan, T.C. Nguyen

Stress and Deformation State for the Edge of a Rectangular Plate Based on Nonclassical Theory

R. Sharma, Z. Radaković

Analytical Solution of Elastic-Plastic Stresses in Thin Rotating Disc made up of Piezoelectric Material

P. Thakur, N. Kumar, Sukhvinder

Elasto-Plastic Density Variation in a Deformable Disk

D.P. Ilyaschenko, D.A. Chinakhov, E.V. Verkhoturova, E.V. Lavrova

Stability of MMA Welding with Protective Coatings

M.C.S. Yasasvi, V. Poornima, V. Bhaskara Rao, V. Lute

Parameter Based Damage Localization in Steel Beams

J. Meško, R. Nikolić, B. Hadzima

Laser Cutting of the Zn Coated Steel

V. Dhummansure, A.A. Kalyanrao, S. Doddamani

Optimization of Process Parameters for Fracture Toughness of Al6061-Graphite Composites

M. Sadou, M. Hadj Meliani, M. Amara, B.G.N. Muthanna, N. Merah, R.K. Suleiman

Impact Resistance of API 5L Steel in Aggressive Environment with the Presence of Green Inhibitors

F. Arzour, M. Hadj Meliani, A. Jabbar Hassan, T. Boukharouba

Microstructure Evolution in Friction Welding of AISI 316

U. Sandić, R. Tomić, A. Grbović, A. Sedmak

Failure Analysis of Bicycle Frame Composite Structure Based on Stacking Variant of Laminate Layers

O. Popović, R. Prokić-Cvetković, Lj. Radović, Z. Burzić, D. Arsić

Heat Input Effect on Fracture Behaviour of Rail Steel Surface Weld Metal

B. Medjo, M. Arsić, M. Mladenović, Z. Savić, V. Grabulov, Z. Radosavljević, M. Rakin

Influence of Defects on Limit Loads and Integrity of the Pipeline at Hydropower Plant 'Piroć'

A. Sedmak: Legende mehanike loma (PDF, 631 kB)

G. Verma

Creep modelling of spherical shell under influence of internal and external pressure

A.A. Saleh

Joining of AA2014 and AA5059 Dissimilar Aluminium Alloys by Friction Stir Welding

K.M. Alnebbhan, M.A. Shallal

Composite concrete and concrete filled steel tube (CFST) truss girders

A.G. Temesgen, S.B. Singh, P. Thakur

Modelling of Elastoplastic Deformation of Transversely Isotropic Rotating Disc of Variable Density with Shaft Under a Radial Temperature Gradient

L. Jeremić, B. Đorđević, I. Šapić, S.A. Sedmak, N. Milovanović

Manufacturing and Integrity of Ammonia Storage Tanks

T.C. Nguyen, T.S. Nguyen, Q.V. Nguyen, T.M. Dung Do

Finite Element Analysis of Temperature and Stress Fields in the Concrete Mass with Pipe-Cooling

V.I. Rizov

Inhomogeneous Beam of Linearly Varying Height Under Three-Point Bending: A Longitudinal Fracture Analysis

K.T. Turanov, S.U. Saidivaliev, D.I. Ilesaliev

Determining the Kinematic Parameters of Railcar Motion in Hump Yard Retarder Positions

A.S. Ahmed, H.F. Hassan, M.K. Medhlom

Behaviour of Two-Way Fibrous High Strength Concrete Slabs Reinforced with GFRP Bars Under Uniformly Distributed Loads

P. Thakur, S. Chand, Sukhvinder, S. Sood, M. Sethi, J. Kaur

Density Parameter in a Transversely and Isotropic Disc Material with Rigid Inclusion

V. Ilyasov, N. Mitin, D. Mishin, N. Ilyasova, S. Kalinovskiy

Study of Temporary Fixation Materials on Single Orthopaedic Structures by Simulating Chewing Load

P. Thakur, N. Gupta, K. Gupta, M. Sethi

Elastic-Plastic Transition in an Orthotropic Material Disk

L. Habib, H. Azzeddine, B. Lahouari

Experimental Study of Tensile Shear Test in Friction Stir Spot Welding

A. Kumar, P. Ailawalia

Thermomechanical Analysis of Magneto-Micropolar Solid Subjected to Thermal Laser Heat Source

B. Đorđević, A. Sedmak, B. Petrovski, S.A. Sedmak, Z. Radaković

Load and Deformation Effects on Brittle Fracture of Ferritic Steel 20MnMoNi 55 in Temperature Transition Region

M. Ćosić, R. Folić

Numerical Model of Fluid-Structure Interaction for Water Tower Analysis of Vibrations

L. Banks-Sills, A. Sedmak

Linear elastic and elasto-plastic aspects of interface fracture mechanics

D. Neggaz, A. El-Azzizi, M. Hadj Meliani, T. Nateche

Failure Assessment Diagram (FAD) and Patch Repairing Index (PRI) on damaged structure reinforced by a composite patch

Y. Bouhamidi, A. Khelil, M. Hadj Meliani, S. Nechad, L. Loukarfi

Numerical investigation of the geometry influence on the aerodynamic fields of the free turbulent jets

A. Kumar, D. Singh, Anjali

Elastodynamic behaviour of generalized microstretch thermoelastic mass diffusion medium subjected to mechanical forces and pulsed heating

B. Menacer, M. Bouchetara

Numerical study on the lubrication performance for different compression ring profile in diesel engine

J. Kaur, M. Sethi, Sukhvinder, S. Chand, P. Thakur

Study of transitional stresses in a deformable disk under the effect of edge loading

P. Ailawalia, Priyanka

Rayleigh wave in semiconductor medium under photothermal theory

A. Matavž, J. Krope, D. Goričanec, D. Urbanc, A. Sedmak, I. Anžel

External atmospheric influences on the mechanical properties of resin-bonded grinding wheels with aluminium oxide and silicon carbide grains

M. Nagaral, V. Bharath, V. Auradi

Mechanical characterization and tensile fractography of Al7049-B₄C metal composites

Y. Olanrewaju Busari, Y.H. Prasada Manurung

Welded high strength low alloy steel influence on fatigue crack propagation of using LEFM: A practical and thematic review

V.P. Ivanov, E.V. Lavrova, D.P. Il'yaschenko, E.V. Verkhoturova

Modelling of fusion zone formation in shielded metal arc welding

A.G. Temesgen, S.B. Singh, P. Thakur

Creep transition analysis in functionally graded thick-walled rotating transversely isotropic cylinder under a radial temperature gradient and uniform pressure

G. Verma, D.S. Pathania

Thermal creep stress analysis of functionally graded spherical shell under internal and external pressure

V.-T. Ngo

Effect of shape factor on the horizontal response of prototype unbonded fiber reinforced elastomeric isolators under cyclic loading

M. Sahni, P.D. Mehta

Thermo-mechanical analysis of sandwich cylinder with middle fgm and boundary composite layers

Dahmane Mouloud, S. Zahaf, M. Benkhettab, M. Soubih, S.A. Slimane, D. Boutchicha

Vibration study induced by internal flow in pipelines under different parameters with a numerical aspect

L. Jeremić, A. Sedmak, N. Milovanović, N. Milošević, S.A. Sedmak

Assessment of integrity of pressure vessels for compressed air

M. Dahmane, S. Zahaf, M. Benkhettab, M. Soubih, S.A. Slimane, D. Boutchicha

Application of the finite element method to vibration analysis of pipes conveying fluid flow

E.I. Jamal Issa, S.M. Saleh Mahmoud, S. Ibrahim Hammad

Roof insulation materials using cement, wood (sawdust) and polystyrene

K. Maheshwari, S. Sharma

Elastic-plastic transition in functionally graded thin rotating orthotropic disk with exponentially variable thickness and variable density

M. Misita, V. Spasojević Brkić, A. Brkić, S. Kirin, I. Rakonjac, M. Damjanović

Impact of downtime pattern on mining machinery efficiency

N. Milošević, A. Sedmak, I. Martić, R. Prokić-Cvetković

Novel procedure to determine actual stress-strain curves

A. Talha, M. Bendouba, A. Djebli, A. Baltach, A. Aid

A low-cycle fatigue damage accumulation approach based on energy criterion and its verification for polyvinyl chloride polymer

I.J. Issa Eleyan, R.A. AlAlwan

Rehabilitation of residential building with corrosion damage: case study in Amman (Marj - Alhamam), Jordan

L.H. Nguyen, V.V. Firsanov

Stress concentration state of piezoelectricity in cylindrical shell based on the non-classical theory

J. Kačmarčík, M. Hadžalić, P. Konjatić

Structural integrity assessment of a mine hoist rope attachment element with a crack

A. Chemmami, B. Aour, S. Zahaf, M. Dahmane, I. Bekka G. Mehdi, D. Boutchicha

Biomechanical comparison of three total artificial discs: SB-Charite III[®], Prodisc-L[®] and Maverick[®] reinforced by a posterior fixation system in the spinal column: a three-dimensional finite element analysis

D. Tanasković, B. Đorđević, M. Gajin, M. Arandelović, N. Gostović, N. Milovanović

Repair welding procedure and techno-economic analysis of burner pipe

M. Radojković, I. Čamagić, Ž. Šarkočević, P. Živković, Z. Golubović

Stress distribution on an isotropic plate with a rectangular opening under biaxial tension load

K. Čolić, S. Petronić, M. Jarić, N. Budimir, D. Nasradin

Welding safety by using a new model of welders' recertification in the oil and gas industry

M. Arandelović, S. Sedmak, R. Jovičić, S. Perković, Z. Burzić, B. Đorđević, Z. Radaković

Numerical simulation of welded joint with multiple various defects

G.C. Rana, P. Kumari Gautam, H. Saxena

Oscillatory motions in an electrothermal-convection in shear-thinning viscoelastic nanofluid layer in a porous medium

M. Mumović, N. Šibalić, D. Bajić, M. Vukčević

Numerical analysis of welding sequence influencing the quality of an AA6060-T4 alloy lap joint

M. Pavišić

Concrete deterioration, consequences, integrity and bearing capacity assessment of in-service concrete bridges

O.T. Alnhoud, A. Shaqadan, R. Alkasasbeh

Developing framework for safety analysis and risk assessment in construction site environment in Jordan

M. Boura, A. Benzegaou, B. Mebarki, M. Hadj Meliani, B.G.N. Muthanna

A mechanical performance study and simulation of a hybrid electric vehicle powered by Ni-MH battery

S.S. Belarbi, H. Lebbal, S. Ahmed Reffas, T. Yahiaou

The influence of electrodes' positions in resistance spot welding process

V.I. Rizov

Inhomogeneous structural component with two lengthwise cracks – a nonlinear fracture analysis

R. Jovičić, L. Jeremić, N. Milošević, A. Sedmak, N. Milovanović

Repair welding of pressure equipment with unacceptable defects

Đ. Đurđević, A. Đurđević, N. Anđelić, A. Petrović

Numerical-experimental determination of stress and deformation state in connection lugs

Đ. Đurđević, S.A. Sedmak, A. Đurđević, N. Anđelić, T. Maneski

Development and calculation of supporting structure for mining power equipment

H. Meddah, H. Lebbal, A. Belarbi

Numerical study of stress reduction in the cement of total hip prosthesis using elastomeric stress absorber

M. Pavlović, A. Cvetković, M. Dojčinović, Lj. Trumbulović, A. Milovanović

Cavitation resistance of basalt-based protective coatings and epoxy systems

I. Cvetković, A. Cvetković, B. Popkonstantinović, M. Stojićević

Catenary - its history, significance and application

Z. Petrović, Z. Burzić, S. Perković, A. Sedmak, S. Tadić

Corrosion effect on mechanical properties of aluminium alloys 2024-T351 and 7075-T651

M. Arsić, Ž. Flajs, A. Sedmak, E. Veg, S. Sedmak

Structural integrity assessment of welded bucket-wheel boom

V. Lute, K.K. Chivukula, S. Ramakrishna

Design and dynamic analysis of screen supporting structure

N. Kumar, P. Thakur

Thermal behaviour in a rotating disc made of transversely isotropic material with rigid shaft

S. Bulatović, V. Aleksić, Lj. Milović, B. Zečević

Determination of the Coffin-Manson equation under low-cycle fatigue conditions

Van-Thuyet Ngo

Influence of vertical load on performance of a prototype un-bonded fiber reinforced elastomeric isolator

E. Lavrova, V. Ivanov, D. Il'yashchenko, E. Verkhoturova

Development of a non-stationary mathematical model of penetration zone formation during electric arc surfacing

H. Faghihmaleki, S. Dezhhosseini

Suggestion of a probabilistic method for the different performance levels evaluating of structures under progressive collapse caused by earthquake

A.N. Venediktov, R.A. Sokolov, R.J. Nekrasov, D.P. Il'yaschenko, E.V. Verkhoturova

Determination of internal stresses in an electrolytic coating arising in a sample during vibrations of a torsional pendulum

P.D. Mehta, S.K. Paul, M. Sahni

Comparison of material response for thermomechanical stresses in functionally graded rotating cylinders

M. Rajić, D. Živković, M. Banić, M. Mančić

Stress-strain analysis of hot water boiler tube plate in start-up regime

A.M. Milovanović, I. Martić, Lj. Trumbulović, Lj. Diković, B. Drndarević

Finite element analysis of spherical storage tank stress state

D. Tanasković, S. Petrović, B. Đorđević, A. Matavž, T. Mijatović

Algorithm for defining quality of base material for repair welding

A.M. Milovanović, T. Mijatović, Lj. Diković, Lj. Trumbulović, B. Drndarević

Structural integrity analysis of a cracked pressure vessel

M. Savanović, I. Arandelović, N. Tanasić, R. Rajić, V. Đokić, D. Đokić

Fire resistance of boiler room building structure for liquid and gaseous fuels

M. Arandelović, L. Jeremić, B. Đorđević, S.A. Sedmak, M. Opačić

Integrity assessment of ammonia storage tank by non-destructive testing

S. Ameer, C.O. El Bahri, A. Djebli, M. Bendouba, A. Aid, B. Bouchouicha

Analysis of FSW parameters: Numerical simulation of HDPE plate

N. Kovač, Š. Ivošević

Reliability of corrosion depth database for alloys exposed to the marine environment

I. Gadolina, M. Pugachev

Preliminary steps for experiment planning in additive technologies studies

I.-I. Ailinei, S.-V. Galațanu, L. Marșavina

Influence of deposition direction on vibration characteristics of 3D printed ABS test specimens

D. Pešić, M. Blagojević, D. Zigar

Heat flux as a parameter of vulnerability of multi-storey building structures exposed to fire – a numerical study

A.H. Dave, H.R Dhananjaya

Efficient trapezoidal web profile for steel corrugated web plate I girder to resist lateral torsional buckling

P. Jakovljević, Đ. Dihovični, I. Bijelić, D. Kreculj, N. Ratković Kovačević

Experiences in 3D printing applied in education

K.D. Vu, S.I. Bazhenova, T.C. Nguyen, V.L. Tang, M.C. Do, V.L. Le, M.T. Hoang

Insulation properties and performance of foam concrete using blast furnace slag

A. Zolochovsky, S. Parkhomenko

Diffusion creep analysis in perovskite thick-walled cylinder under radial oxygen vacancies gradient

R. Zaidi, A. Sedmak, S. Kirin, I. Martić, Ž. Šarkočević

Structural integrity and life assessment of oil drilling rig pipes using analytical method

P. Ailawalia, V. Sharma

Wave propagation in thermoelastic microelongated half-space

S. Zahaf, M. Dahmane, M. Benkhettab, A. Belaziz, M. Soubih

Numerical study of combined effect of fluid and thermal induced free vibration on pipe with supported ends

Kavita, V. Sharma, G.C. Rana

Electroconvection in rotating pulsating throughflow nanofluid saturated by porous layer with realistic model

M.R. Seba, S. Kebdani

Free vibration analysis of laminated composite plate with elastoplastic layers

H.F. Hassan, M.H. Al-Dahlaki, A.A. Ibrahim

Shear behaviour of fibrous normal and high strength concrete beams reinforced by GFRP bars and stirrups

M. Afzali, A. Karimloo

Effect of nanographene on the milling process of epoxy based composite

M. Aleksandrović, N. Ratković Kovačević, D. Kreculj, Đ. Dihovični, P. Jakovljević

Making a Mg printer of delta configuration using open-source project

R. Petrović, A. Banaszek, A.I. Tsaplin, H. Onalla, S. Jowan

Production of liquefied natural gas from natural gas

R. Petrović, A. Banaszek, S.V. Bocharov, H.R. Qananah, K.A. Alnagasa

Application of liquefied natural gas

M.S.I. Elsayed, T. El-Fakharany, O.I. Hassanein Hassan, I. Martić, N. Neves

Correlation between pickup weight, slack-off weight and rotation string weight in vertical and directional wells

M.A. Ouari, A. Djebli, A. Miloudi, M. Bendouba, A. Aid, S. Zengah, A. Baltach, A. Talha

Effect of stress-frequency interaction on the fatigue behaviour of HDPE material

D. Hemanth Kumar, V. Lute, V. Bhaskara Rao, G. Madhuri

Strength and quality evaluation of concrete elements using non-destructive testing

L. Abdelaziz, B. Bouziane, M. Amara, A. Abdelmalek, M. Hadj Meliani, H. Fodil

Effects of pre-buckling in-plane deformation and curvature terms of laminated plates using refined theory

T. Kosić, I. Svetel

Technological and economical analysis of curved glass structure

I. Svetel, T. Kosić

Use of digital information in architecture, engineering, construction and operation: standardization efforts

A. Kumar, S. Sood, P. Thakur, N. Kumar

Safety analysis in an isotropic material disc fitted with a rigid shaft subjected to thermo-mechanical load by using transition theory

N. Kumar, P. Thakur

Behaviour of creep stress and strain rates in a solid disc made of isotropic material with thermal condition

M. Hassanzadeh, R. Madandoost, H. Faghihmaleki

Study of the polyolefin fibres effect on the properties of fresh and hardened concrete

H. Sharma, S. Kumari, P. Ailawalia

Wave propagation in thermo-viscoelastic semiconducting medium with hydrostatic initial stress

B. Habib, S. Fethi, N. Tahar, M. Hadj Meliani

Fluid-structure interaction of an airfoil equipped with an active control system: numerical simulation and positioning study

A. Kumar, V. Ghlawat, D. Singh, K. Alam

Mathematical model for fractional microstretch thermoelastic medium

R. Petrović, D. Vasilski, M. Anđelković, S.A. Sedmak, K.B. Omran, S.I. Shweka

Stress calculation and deformation of tanks loaded by internal gas pressure located in city heating plants

S. Shweka, R. Petrović, D. Vasilski, M. Anđelković, K.B. Omran, M. Jaba, I. Martić

Stress and deformation calculation of atmospheric oil storage tanks at port terminals

H.R. Qananah, R. Petrović, A. Banaszek, M. Anđelković, R. Cvejić, N. Đorđević, N. Milovanović

Stress state optimisation of vertical atmospheric large-volume tanks

K. Alnagasa, R. Petrović, A. Banaszek, M. Anđelković, R. Cvejić, S. Mihajlović, I. Martić

Stress state analysis of propane butane gas spherical storage tanks

T. Vučetić, B. Petrovski, Z. Marković, L. Jeremić, N. Milošević, A. Sedmak, N. Milovanović

Stiffener as a special design solution for pressure vessel repair

A.I. Feier, F.V. Banciu, M. Brînduşoiu, R. Băncilă

The first welded bridge - prototype development through fused deposition modelling (FDM)

M. Anđelković, M. Radosavljević, R. Petrović, P. Kočović, S. Cvejić

Computer programme for mathematical modelling and optimisation of hydrodynamic processes in a radial piston pump

M. Radosavljević, M. Anđelković, P. Kočović, R. Petrović, S. Cvejić

An approach in reducing vibration in seawater hydraulic piston pumps for increased operational effectiveness and efficiency

P. Bansal, V. Gupta

Rayleigh wave propagation in thermoelastic diffusion medium under Green-Naghdi models

I. Jevtić, G. Mladenović, M. Milošević, A. Milovanović, I. Trajković, M. Travica

Dimensional accuracy of parts obtained by SLS technology

M. Murić, A. Milovanović, M. Pavlović

LED diodes arrangement influencing the heat transfer to passive aluminium heatsink in an industrial reflector

M. Timotijević, O. Erić Cekić, D. Rajnović, M. Dojčinović, P. Janjatović

Microstructure evolution and mechanical properties degradation of HPNB alloy after an eleven-year service

A. Milovanović, Z. Golubović, T. Babinský, I. Šulák, A. Mitrović

Tensile properties of polypropylene additively manufactured by FDM

A. Kumar, P. Ailawalia, V. Ghlawat, K. Alam

Elastodynamics of mechanical forces and Hall current in magnetomicroscopic thermoelastic mass diffusion medium

A. Kumar, V. Ghlawat, D. Singh, K. Alam

Mathematical model for fractional microstretch thermoelastic medium

H.N. Prasad, H.K. Srinivas, P. Rajendra, N. Madeva, M. Raviprakash, V. Auradi

Effect of nano zirconium oxide (ZrO_2) particles addition on the mechanical behaviour and tensile fractography of copper-tin (Cu-Sn) alloy nano composites

M. Amara, C. Arroussi, H. Didouh, M. Hadj Meliani, G. Pluinage

Fracture mechanics computation to estimate the constraint parameters and crack path orientation

Đ. Đurđević, A. Đurđević, N. Anđelić, V. Milošević-Mitić, K. Antić

Strength and reliability of open cross-sections thin wall beams in a raft load-bearing structure

A. Brkić, M. Misita, V. Spasojević Brkić, T. Golubović, N. Papić, M. Perišić

Crane stoppages risk assessment

A. Jovanović, B. Đorđević, L. Jeremić, N. Milovanović, T. Smoljanić

Integrity assessment of autoclaves after reconstruction

T. Smoljanić, S. Sedmak, A. Sedmak, Z. Burzić, A. Milovanović

Experimental and numerical investigation of Ti-6Al-4V alloy behaviour under different exploitation conditions

S. Perković, Z. Radaković, Z. Burzić, S.A. Sedmak, A. Sedmak, Lj. Radović
Stress concentration effects on toughness value of duplex steel S32750

N. Mitrović, A. Mitrović, M. Travica
Tensile testing of flat thin specimens using the two-dimensional digital image correlation method

F.S. Kara Achira, S. Mohamed Medjdoub, A. Hocine, M. Houcine Dhaou, D. Chapelle
Numerical analysis of the effect of the repair of corroded pipeline with composite patches on the prediction of failure pressure

N. Menasri, N. Aimeur
Faults diagnostics of cement draft fan using Artificial Neural Network (ANN)

B. Katageri, R. Khanai, R.V. Raikar, D.A. Torse, K. Pai
Surface crack detection using deep learning framework for civil structures

P. Ailawalia, A. Sharma
Effect of hydrostatic initial stress in a functionally graded hygrothermoelastic half space

A. Zerrouk, A. Khelil, L. Loukarfi
Numerical prediction of a swirling jet system impacting by the RSM model

D. Sharma, A. Sharma
Strength assesment of asphaltic concrete using bitumen, natural fibre and stone dust

S. Chand, S. Sood, P. Thakur, K. Gupta
Elasto-plastic stress deformation in an annular disk made of isotropic material and subjected to uniform pressure

D. Mishin, S. Kalinovsky, V. Ilyasov, V. Dedova
Investigation of axial displacement of suprastructures at the conical implant-abutment interface

S. Shahi
Characterization of transitional stress concentrations in molar and premolar implants modelled as hemispherical shells under uniaxial pressure using Seth's transition theory

S. Kerrouz, M. Bouchetara, T. Tamine
Numerical simulation of thermomechanical behaviour of automotive brake disc in dry sliding contact with pads

M. Jarić, N. Budimir, S. Petronić, A. Maslarević, A. Jovanović
Oily-water tank operational reliability analysis in an oil and gas facility

N. Budimir, Z. Brat, S. Petronić, M. Jarić, L. Jeremić
Residual stress effects on methanol storage tank integrity

F. Vučetić, B. Đorđević, M. Arandelović, S. Sedmak, N. Milošević, D. Radu, L. Jeremić
Integrity of welded joints made of alloy NiCr21Mo

Z. Petrović, Z. Burzić, A. Sedmak, A. Grbović, N. Kostić
Corrosion effect on the remaining life of AA2024-T351 components

S. Mastilović, B. Đorđević, A. Sedmak, S. Kirin

Size effect assessment of K_{Jc} experimental data using the two-step-scaling method

A. Jovanović, B. Đorđević, L. Jeremić, S. Sedmak, A. Petrović

Inspection of damage and risk analysis of containers in a coal drying facility in exploitation

Lj. Petrov, B. Bojović, Z. Golubović, A. Sedmak, Ž. Mišković, I. Trajković, M. Milošević

Experimental mechanical characterization of parts manufactured by SLA and DLP technologies

A. Maslarević, G. Bakić, B. Rajčić, N. Milošević, V. Maksimović

Influence of plasma transferred arc welding parameters on the obtained microstructure of 316L coating

W. Li, N. Trišović

A review on approaches for structural dynamic modification

M. Paunić, I. Balać

Cryogenic temperature influence on composite material behaviour

M. Lazarević, B. Živković, D. Bajić, A. Alil, Lj. Tomić, B. Nedić

Properties of aluminium-steel plates explosively welded using Amonex

M. Dinulović, A. Grbović, V. Adžić, H. Alarafati

Composite plates with Nomex honeycomb core modelling for dynamic integrity at the mesoscale level

A. Milivojević, M. Adžić, M. Stamenić, V. Adžić

Low-calorie gaseous fuels enrichment with hydrogen

Obogaćivanje niskokaloričnih gasovitih goriva vodonikom

A. Grbović, A.Y. Solob, S. Sedmak, A. Sedmak

Optimisation of wing-fuselage attachment lug

A. Grbović, A.Y. Solob, S. Sedmak, A. Sedmak

Numerical and experimental analysis of the integrity of light aircraft wing structure

S. Belamri, H. Lebbal, T. Yahiaou, D. Boutchicha, T. Tamine

Experimental and numerical determination of defects in rectangular plates with vibration analysis method

V.I. Rizov

Delamination study of inhomogeneous beams with rectangular cross-section exhibiting relaxation under torsion

V. Ol'shanetskii, A. Glotka

Optimisation of the composition and morphology of carbides in single-crystal nickel-based superalloys

K.N. Bharath, S. Doddamani, A.M. Rajesh, K.M. Kaleemulla

Simulation of various fracture models by varying geometrical parameters using Taguchi's DOE

A. Lounis, E.B. Ould Chikh, K. Hachellaf, M.H. Meddah

Evolution of temperature and microhardness in polymer plates welded by friction stir spot welding (FSSW) using a welding tool without pin

R. Sharma

Evaluation of thermal elastic-plastic stresses in transversely isotropic disk made of piezoelectric material with variable thickness and variable density subjected to internal pressure

F.Z. Khelif, M. Helmaoui, F. Bouzit, H. Derraz, A. Bencherif, M. Bouzit

Numerical study of dam-break on multi porous breakwater

C. Zeghida, A. Guedri, M.A. Belyamna, M. Hadj Meliani, Lj. Milović

Transient temperature fields effects on multi-pass welding in a butt joint of austenitic piping

Đ. Đurđević, N. Anđelić, A. Đurđević, A. Petrović, V. Milošević-Mitić, B. Ivljanin

Thin-walled omega profile exposed to constrained torsion - analytical and numerical stress and strain calculation

A. Grbović, A. Sedmak, Lj. Lazić-Vulićević, R. Zaidi, N. Vitas, S. Kirin

Extended finite element method simulation of fatigue crack growth in a Charpy specimen

A. Sedmak, A. Grbović, R. Zaidi, S. Kirin, N. Vitas, T. Golubović, I. Vučetić

Numerical, analytical and experimental determination of remaining life of a pipe with an axial crack

M. Radojković, I. Čamagić, S. Sedmak

Influence of elliptical opening position on the distribution of minimum principal normal stress

T. Krausz, C.F. Popa, S.-V. Galațanu, L. Marșavina

Numerical and experimental study for polycarbonate composites under static and dynamic tests

M. Pavlović, M. Dojčinović, M. Harbinja, A. Hođić, M. Stojanović, Z. Čeganjac, Z. Aćimović

New types of protective coatings and development of test methods

V. Ghlawat, K. Alam, P. Ailawalia, A. Kumar

Elastodynamical interactions in a fractional order micropolar thermoelastic mass diffusion medium under laser pulse heating

A. Doicheva, Y. Shu, F. Kusuhara, H. Shiohara

Seismic tests on reinforced concrete beam-column joint sub-assemblages subject to lateral and long-term vertical load

A. Sharma, S. Shahi

Effect of sand and geogrid reinforcement on bearing capacity of sand admixed pond ash

A. Benkhetto, A. Sahli, S. Benbarek, I. Boudjemaa

Finite element predicting of flexible PU foam mattress comfort

N. Singh, J. Kaur, P. Thakur, G. Murali

Structural behaviour of annular isotropic disk made of steel/copper material with gradually varying thickness subjected to internal pressure

P.L. Sharma, D. Bains, A. Kumar, P. Thakur

Effect of rotation on thermosolutal convection in Jeffrey nanofluid with porous medium

A.I. Ndukwe, J.U. Anaele

Corrosion of duplex stainless-steel weldments: a review of recent developments

B.K. Sah, L. Venkat

A study on critical seismic demand parameters of reinforced concrete building using nonlinear static analysis

S.K. Paul, P.D. Mehta, M. Sahni

Thermomechanical response of a functionally graded pressurized cylinder using iterative technique

M.F. Fekaouni, M. Amara, A. Belalia, M. Hadj Meliani, G. Pluvinage, R.K. Suleiman, Lj. Milović

Inspection and proposal for the repair method of a cracked expansion joint on heat exchanger using composite sleeves

I. Jevtić, J. Stojanović, A. Milovanović, I. Trajković, M. Milošević, G. Mladenović

Printing orientation and place influencing the compressive strength of polyamid 12 specimens obtained by SLS technology

Z. Karastojković

Temperature as a criterion for classification of cold, warm, and hot cracking

K. Čolić, S. Sedmak, A. Sedmak, A. Milovanović, M. Milošević

Numerical analysis of static stresses of partial hip implant

N. Vukojević, Z. Ištvanic, F. Hadžikadunić, A. Bajtarević-Jeleč

Influence of incremental sheet forming and PWHT on the structural integrity of vessel heads made of steel P355NL2+H

K. Čolić, A. Sedmak, N. Vučetić, M. Milošević, S. Sedmak

Finite element stress state analysis of mini dental implants

A. Kumar, P.L. Sharma, D. Bains, P. Thakur

Soret and Dufour effects on thermosolutal convection in Jeffrey nanofluid in the presence of porous medium

P.L. Sharma, M. Kapalta, D. Bains, A. Kumar, V. Sharma, P. Thakur

Electrohydrodynamics convection in dielectric Oldroydian nanofluid layer in porous medium

K.F. Wani, K. Nallasivam

Static and free vibration analysis of rigid pavement resting on Winkler and Pasternak foundations

G. Verma, Gagandeep, Ishika, H.K. Sodhi

Deformation analysis of spherical shell by using generalised Hooke's law

G. Verma, B. Singh

Mathematical model of spherical shell under creep deformation

T. Lazović, P. Ljubojević, N. Trišović, Z. Trišović

Composite materials - current state of standardization

A. Đurđević, Đ. Đurđević, Lj. Bučanović, A. Živković, A. Sedmak

Production development of AA 5754-H111 lap joint by friction stir welding

M. Arandelović, A. Petrović, S. Sedmak

Digital image correlation application to structural integrity assessment

K. Djakhane, A. Dehbi, M. Aouinet, P. Picuno, K. Rakrak, M. Hadj Meliani

Experimental creep test sensibility of the mechanical proprieties of LDPE films used as greenhouse roof

S. Samardžić, M. Manjgo, M. Manjgo, M. Milutinović, A. Đurić

Annealing effect on impact properties of reinforced polymer PA6-GF made by FDM technology

D. Veljić, W. Musrati, B. Međo, A. Sedmak, N. Radović

Numerical simulation of friction stir welding - the plunge stage in T-joint

M. Jarić, N. Budimir, S. Petronić, S. Sedmak, N. Vitas

Analysis of remediation of manifold line damaged by longitudinal crack in the piping elbow of oil and gas well collector

M. Jarić, S. Petronić, K. Čolić, M. Opačić, I. Svetel

Analysis of service problems of caustic tanks installed in oil and gas plants

A. Grbović, A. Solob, S. Sedmak, A. Sedmak, Ž. Božić

Three-parameter optimisation of an attachment lug

Ž. Bulatović, D. Knežević, S. Biočanin, M. Timotijević

Determining the working characteristics of mechanically driven centrifugal compressors N-46-6

A. Kuznetsov, D. Mishin, S. Kalinovskiy, V. Ilyasov, D. Sinichenkov, K. Evgenia

Tightness of the conical implant-abutment interface

I. Popović, M. Đorđević, J. Skerlić, I. Čamagić, S. Kirin

Determining the reliability function of the thermal power system in power plant 'Nikola Tesla, Block B1' using the Weibull distribution

Sukhvinder, P. Gulial, D.S. Pathania, P. Thakur, J. Kaur, P.L. Sharma

Thermal stress distribution in a tube of natural rubber/ polyurethane and subjected to internal pressure and mechanical load

Sukhvinder, P. Gulial, D.S. Pathania, P. Thakur, J. Kaur, P.L. Sharma

Comparative study of creep in a disk of rubber/copper fitted with rigid shaft

S. Kumar, P. Thakur, S. Sood, N. Kumar, P. Gulial

Transversely isotropic elastoplastic behaviour in a mechanically loaded rotating disk

V. Ghlawat, D.S. Pathania, R. Sharma, A. Kumar, K. Alam

Evaluation of thermal stresses in transversely isotropic piezoelectric disc with rotation and internal pressure

R. Sharma, V. Ghlawat, Z. Radaković, K. Alam

Creep stress analysis of functionally graded transversely isotropic piezoelectric disc with variable thickness under rotation

L. Leshchinskii, V. Ivanov, E. Lavrova, D. Il'yaschenko, E.V. Verkhoturova

Fracture resistance of the deposited metal under dynamic and cyclic loading

B. Menacer, S. Narayan, V. Tuninetti

Theoretical analysis of the piston ring-pack for predicting friction and power loss in an internal combustion engine

M. Vidak Vasić

Techno-economic analysis in the service of traditional ceramic industry. The first review

L. Kurešević, D. Lužaić, I. Delić-Nikolić

Assessment of Borač-Kotlenik magmatic massif rock mass technical properties as potential source for optimal development of regional road infrastructure based on local stone materials

M. Miladinov, B. Đorđević, S. Sedmak, C. Bratu, D. Radu, A. Sedmak, N. Aleksić

Damage analysis and restoring of structural integrity of Pelton runner after repair welding: case study

M. Jarić, S. Petronić, Z. Brat, S. Polić, A.M. Kraedegh

Classification of offshore oil and gas plants

N. Kostić, I. Čamagić, A. Sedmak, Z. Burzić, S. Sedmak, G. Mandić, Milan Ostojin

Impact toughness behaviour of A516 GR. 60 steel welded joints

D. Murali Krishna, G. Madhuri, L. Venkat

Detection of crack on concrete surfaces using image processing techniques

P.L. Sharma, P. Lata, D. Bains, A. Kumar, G.C. Rana

On the onset of stationary convection on Jeffrey nanofluid layer saturated with a porous medium: Brinkman model

M. Traiche, H. Rached, R.K. Suleiman, M. Amara, M. Hadj Meliani

Photodetectors performance of nanostructured materials in antimony III-V InGaAsSb/AlGaAsSb interband cascade structures

- A. Milovanović, A. Sedmak, M. Paunić, A. Mitrović, M. Popović, M. Milošević**
Tensile properties of pure PLA polymer dedicated for additive manufacturing
- K. Čolić, S. Sedmak, C.A. Dascau, I. Filipović, A. Milovanović, T. Smoljanić, F. Vučetić**
Reverse engineering and finite element analysis of Ti-6Al-4V orthopaedic hip implants
- E. Anastasovska, E. Doncheva, F. Zdraveski**
A review study on hydrogen embrittlement of steel
- A. Terzić, S. Filipović, N. Mijatović, N. Obradović, W.G. Fahrenholtz, K. Janković, D. Bojović**
Bio-waste-based cement for sustainable civil engineering practice
- S. Marković, I. Svetel, V.M. Čolić Damjanović**
Integrity and life in emerging architecture - positioning the architect in continual digital design
- P. Thakur**
Creep deformation in a thick-walled spherical shell having steady state temperature
- P. Thakur**
Analytical solution of bending sheet made of cast iron/bronze material
- P. Gulial, P. Thakur**
Safety analysis in an elastoplastic orthotropic rotating cylinder under steady state temperature
- P.L. Sharma, A. Kumar, P. Lata, G.C. Rana**
Effect of magnetic field on thermal instability in rotating Jeffrey nanofluid saturated by a porous medium: free-free, rigid-rigid, and rigid-free boundary conditions
- S. Shahi, G. Kaur**
Mathematical modelling of creep transition in structural components composed of titanate ceramics fabricated as annular rotating discs
- R. Sharma, A. Nagar**
Analytical solution of stresses in isotropic disc composed of functionally graded material with variable compressibility and thickness
- R. Sharma, Z. Radaković**
Fracture analysis in an orthotropic rotating hyperbolic disk fitted with stiff rod
- V.I. Rizov**
Study of longitudinal fracture in nonlinear viscoelastic beams whose thickness grows with time
- M.A. Kuznetsov, A.V. Proskokov, D.P. Il'yaschenko, E.V. Lavrova**
Microstructure, microhardness and chemical composition of a detail obtained by electro-arc surfacing on a hardware-software complex of a delta layout
- A.R.N. Calero Barboza, J.A. Acero Martinez, Á.A. Ruiz-Pico**
Threshold drifts of structural performance levels in ductility-limited walls with ductile mesh
- I.J. Rodas Manosalva, J.G. Villanueva Alayo, J.A. Acero Martínez**
Control of torsion effects in buildings with extreme torsional irregularity through the use of hysteretic dissipators-SLB
- T.C. Nguyen, M. Sofi, Q.L. Hoang**
Thermal stress evolution of tunnel wall during construction
- A.M. Kraedegh, L. Jeremić, I. Martić, T. Golubović, A. Jovanović**
Integrity and risk assessment of offshore jacket structures
- H.F.H. Mobark, A.H. Al-Azzawi, A.K. AbidAli, B. Mohamad**
Comparative tribological analysis of Al-Fe-Si and Al-Fe-Cr based alloys
- N. Lather, R. Bhardwaj, N. Mani, P. Ailawalia, A. Sharma**
Time period of tapered parallelogram-shaped plate with exponential profile in Young's modulus
- P.S. Shcherban, A.N. Karagadyan, K.R. Dzhahalova**
Searching for oil storage tank layout by solving NP-complete combinatorial optimisation problem
- A. Chenoun, H. Ameer, A. Belalia, R. Benzeguir, M. Hadj Meliani, Y. Kamla, Z. Driss, R.K. Suleiman, Lj. Milović, S. Lamsadfa**
Numerical study of baffle parameters effect on field flow and power consumption
- M. Hamdi, M. Bouanini, M. Hadj Meliani, B. Benabdelkader, E. Mohamed, E. Rossi di Schio, A. Alhussein, F. Hammadi**
Effect of forced vibrations of brake pads on the thermal performance of the disc: A numerical perspective

- E. Petzek, A. Feier, S. Hernea**
Method for reducing deformations in large beams
- A. Sedmak, S. Perković, Z. Burzić, S. Tadić, N. Milovanović**
Temperature and stress concentration effects on crack initiation and propagation energies of duplex steel weldments
- A. Vukosavljević, A. Sedmak, S. Tadić, Lj. Radović, N. Radović**
Influence of chemical composition and heat treatment on hardness and strength of a Hadfield steel
- N. Kostić, I. Čamagić, A. Sedmak, S. Sedmak, Z. Burzić**
Impact toughness of A516 Gr. 60 steel simulated heat-affected-zone
- N. Momčilović, N. Ilić, M. Kalajdžić**
Evaluating the structural integrity of novel deckhouses on tanker ships under extreme conditions
- V.-T. Ngo**
Seismic performance comparison of a base-isolated building supported on bonded and unbonded fiber-reinforced elastomeric isolators
- A. Sharma, P. Thakur**
Symmetry of rectangular plate made of isotropic material
- P. Thakur, A. Sharma**
Effect of non-homogeneity on the stresses and temperature distribution in a thick-walled circular cylinder
- P. Thakur, P. Gulial, A. Sharma**
Comparative elastoplastic analysis in a rotating disk made of polymer material with variable density parameter
- P.L. Sharma, P. Lata, A. Kumar**
Effect of magnetic field on thermal instability in a porous medium layer saturated by a Jeffrey nanofluid using Brinkman model: free-free, rigid-rigid, rigid-free boundary conditions
- P. Ailawalia, S. Choudhary**
One-dimensional thermal shock problem for a semi-infinite semiconducting rod with hydrostatic initial stress
- K. Saada, S. Amroune, M. Zaoui, A. Houari, K. Madani, M. Benarioua, R. Benyettou**
Numerical analysis of the mechanical properties of biocomposites in different geometric forms
- A. Houari, S. Amroune, K. Madani, K. Bendine, S. Lecheb, K. Saada**
Optimisation methods applied to the distribution of rotor blades in a turbofan engine
- M.I. Firdaus, R. Adiputra, A.R. Prabowo**
Empirical formulation for assessing the ultimate strength of ship hull plates under geometrical imperfection
- A.R. Prabowo, T.F. Yusuf, P.W. Adie, N. Muhayat, I. Istanto, T. Tuswan, A. Zubaydi, T. Muttaqie, Q.T. Do, M. Jurković**
Engineered novel-mechanical design and performance assessment of stiffened plates against ballistic loading
- N. Vukojević, Z. Ištvanić, F. Hadžikadunić, A. Bajtarević-Jeleč**
Analysis of the dependence of residual stresses on the structural parameters of vessel heads using experimental design
- S. Bansal, S.B. Singh**
Investigation of creep in anisotropic cylinder using plane stress condition
- P. Kumar, S.B. Singh, S.K. Jain**
Creep behaviour of isotropic pressure vessel with hemispherical ends subjected to internal pressure
- H. Kaddour, O.C. El Bahri, L. Abdallah**
Influence of metals cutting on parts machined by turning of bronze and aluminium metals
- I. Trajković, M. Balać, M. Milošević, B. Medo**
Application of DIC method in determining fracture mechanics parameters on ring-shaped specimens with a sharp notch manufactured using the FDM technique
- F. Hamza, A. Guedri, H. Hamadache, M. Hadj Meliani, R.K. Suleiman**
Investigating plastic instability of DD14 steel sheet in deep drawing process: A material characterisation and FEM analysis of die radius impact
- K. Azouzi, M. Kouadria, K.E. Dehar, M. Hadj Meliani**
Vibration analysis of induction motor for bearing faults detection using ESPRIT method
- M. Jarić, S. Petronić, Z. Brat, S. Polić, A. Ivanović**
An overview of storage tank types

- A. Sedmak, I. Petrović, M. Milošević, C. Dascau, A. Milovanović, R. Vulović**
Digital twin-based numerical simulation of stress distribution in the mandible with dental implants
- A.R. Savić, A. Terzić, G. Broćeta, B. Ilić, D. Bojović**
Rheological and mechanical behaviour of self-compacting concrete with modified recycled concrete aggregate
- M.R. Vasić, F. Pantelić, M. Vorkapić, A. Terzić, S. Đelević, B. Ilić**
Application of acoustic emission in the brick and tile industry
- N. Kostić, I. Čamagić, A. Sedmak, S. Joksić, S. Sedmak, V. Milić, Z. Burzić**
Repair and structural integrity assessment of a large spherical tank
- A. Marchandi Faizatama, N. Firdaus, R. Adiputra, A. Rio Prabowo, B.H. Shame, M. Jurković, A.S. Purwoko, A.M.T. Fil Ardli**
Mooring stress analysis of OC3-Hywind floating platform with variation anchor placement
- A.M.A. Utama, R. Adiputra, A.R. Prabowo, J.M. Sohn, O. Melnyk, S. Onyshchenko, N. Muhayat, W.P. Raharjo, W. Wibowo, Y. Kuswardi**
Toward ultimate bending moment of marine-based structures: mesh convergence study using the MST-3 box girder
- T. Lazović, P. Ljubojević, M. Stojanović**
Influence of lubricant contamination on ball bearing rating life
- M. Ivić Nikolić, S. Jovanović, A. Nikolić, B. Đorđević, A. Sedmak, A. Petrović**
Some remarks on the basic principles of ultrasonic welding of conductors in the automotive industry
- A. Milovanović, M. Paunić, S.-V. Galațanu, I. Filipović, M. Milošević, L. Marșavina, A. Sedmak**
Impact properties of FDM-grade PLA polymer relative to infill density
- H.I. Khalaf, A. Atak, R. Al-Sabur, H. Khazal, A. Kubit**
Integrity and FSSW performance of Al and Mg sheets for next-generation aerospace and automotive applications
- A. Maslarević, N. Milosević, O. Popović, B. Marinčić, D. Milenković, R. Prokić Cvetković, G. Bakić**
Influence of welding parameters on the geometric characteristics of surface weld metal obtained by handheld laser welding
- A. Dimić, N. Kolarević, M. Stanković, D. Mihajlović**
Windage losses of the high-speed cylindrical gear drives
- A. Đurđević, D. Đurđević, N. Anđelić, A. Šotić, N. Aleksić**
Static calculation of container structure loaded by wind and snow using the finite element method
- S. Bulatović, M. Tasić, Z. Kovačević**
Remaining life assessment of 1Cr-0.5Mo boiler steel after long-term service in creep conditions
- M. Beykzade, M.M. Dehcheshmeh, H.A. Kordshami**
Evaluation of seismic performance of concrete structures using linear and nonlinear elastomeric seismic isolators
- P. Thakur, P. Gulial, Sukhvinder, D.S. Pathania**
Investigating the density parameter in a disk made of cadmium/magnesium/beryl
- P. Thakur, P. Gulial**
Elastoplastic analysis in an orthotropic rotating cylinder by using Seth's transition theory
- P. Thakur, P. Gulial**
Exploring the interplay of stress factors in thin rotating disk with inclusions and loading edges: A comprehensive investigation
- H.A. Vafa, R. Ahmadpour-Geshlagi, S. Mousavi, S. Heidarpour Tabrizi, S.S. Alizadeh**
Asset integrity indicators in HSE management: A systematic review
- V. Reynoza, J. Acero**
Evaluation and seismic risk of confined masonry buildings in the city of Eten - Chiclayo - Peru, 2023
- J.G. Salvador Terrones, J.A. Acero Martínez**
Study on the influence of the application of biochar on the properties of concrete
- F. Zakharov, J. Qian, Y. Xu**
Physics-informed neural networks for modelling pressure distribution on building facades
- E.C.K. Putra, A.R. Prabowo, R. Adiputra, H. Nubli, W. Hendriyono, A.M.T.F. Ardli, S.D. Prasetyo, S.N. Fitri**
Comprehensive bibliometric analysis of global research trends in hull grider ultimate-fatigue strength in naval and marine structures
- M. Amara, F.Z. Khedim, Lj. Milović, M. Hadj Meliani, R.K. Suleiman**
Inspection by NDT-DT to analyse and control friction rotating welding of AISI 304L and AISI 316L stainless steel grade
- A. Abdelmalek, M. Hadj Meliani, A. Lairedj, F. Bouchakour**
Study of the vibratory behaviour of spherical 3D laminated composite shell
- L. Fali, A. Saidi, B. Merah, K. Zizouni, M. Djermane, I.K. Bousserhane, M. Hadj Meliani, R.K. Suleiman, Lj. Milović**
A critical review on energy dissipator control strategies for structural vibration control
- M. Košević, M. Baltić, B. Fidanovski, M. Vorkapić, D. Bajić**
Thermomechanical and electrochemical properties of graphene/PVB functional coating

M. Furukawa, K. Nakamura, K. Oda, S. Shigemura, Y. Kobayashi

[Identifying damaged part in concrete specimen using actual arrival time errors of using weighted potential time in acoustic emission tomography](#)

K. Nakamura, M. Furukawa, K. Oda, S. Shigemura, Y. Kobayashi

[Implementation of Lagrange interpolation for optimisation of computational resource used in AE tomography](#)

K. Oda, M. Furukawa, K. Nakamura, R. Wan, Y. Kobayashi

[Study on estimating the settlement force of snow cover load on net fences](#)

Z. Golubović, B. Bojović, S. Kirin, A. Milovanović, I. Danilov, A. Sedmak

[A comparative study on the tensile properties of 3D printed ABS filament and resin: Effects of aging](#)

V. Vujović

[Possibility of applying hydrogen energy in the railway sector](#)

M. Pavlović, M. Dojčinović, A. Sedmak, O. Popović, V. Lazović

[Cavitation erosion - process and development of testing methods](#)

I. Shatskyi, M. Makoviichuk, I. Lazarev, L. Ropyak

[Response of functionally gradient ceramic coating on abrasive action](#)

Ž. Mišković, D. Pejčić, J. Antić, J. Bucha, T. Milesich, J. Danko, B. Đorđević

[Risk evaluation of additive manufacturing technologies in automotive industry using the Kinney method](#)

S. Çalışkan

[Investigation of failure analysis for AISI 4340 steels on near threshold region](#)

K. Karimi-Moridani

[Evaluation of the behaviour of pre-loaded concrete specimens containing pozzolans and fibres](#)

H. Faghihmaleki, A. Tajik

[The carpet fibres effect in improving the resistance properties of recycled concrete](#)

M. Afzali, A. Ghorbanpour Arani, Z. Khoddami Maraghi

[Experimental investigation on the effect of SiO₂ nanoparticles in axial creep rupture behaviour of GFRP](#)

M. Afzali, A. Ghorbanpour Arani, Z. Khoddami Maraghi

[Novel CFRP crash boxes with high absorption geometry reinforced with nano graphene oxide](#)

P.L. Sharma, A. Kumar, P. Lata, V. Kumar

[Effect of magnetic field on the onset of convection in a rotating Jeffrey nanofluid using the Brinkman model for free-free, rigid-rigid and rigid-free boundary conditions](#)

O. Glotka, O. Mityayev, V. Netrebko, O. Petrashov

[Nature of cyclic destruction of aluminium alloy for engine pistons](#)

I.S. Batraev, V.Yu. Ulianitsky, D.V. Dudina, T.M. Vidyuk, B.B. Bokhonov, A.V. Ukhina, K.Yu. Pashkeev, M.N. Samodurov, E.A. Trofimov

[MnFeCoNiCu high-entropy alloys formed by detonation spraying of a powder blend followed by laser treatment](#)

Sapna, N. Mani, A. Sharma, P. Ailawalia

[Time period analysis of orthotropic plate having 1-D circular Poisson's ratio](#)

D. Chauhan, M. Sahni, V. Badheka, K. Mehta

[Comparative tribological performance of hybrid metal matrix composite manufacture using different casting methods](#)

A.A. Djendara, M. El Amine Khiari, A. Benzaama

[Analysis of thermal and residual stresses in multilayer welded stainless-steel pipes using DFLUX and FILM subroutines](#)

F.Z. Kihel, K. Boualem, Z. Lafane, T. Yahiaoui, B. Hamoudi

[Experimental and numerical investigation of wind drag loads on an offshore structure transported on a barge to an oil field](#)

B.T. Phung, T.C. Nguyen, H.H. Nguyen

[Numerical model and experiment to determine stress and displacement of steel box girder bridge structure](#)

A. Sedmak, K. Čolić, S. Sedmak

[Structural integrity and life of hip implants: review of case studies](#)

A. Sedmak, I. Petrović, M. Milošević, C. Dascau, T. Golubović, R. Vulović

[Effect of dental implants loading and design on stress distribution in a mandible bone](#)