

M.Sc. Thesis

E. Ghafaralahi, Quality estimation of resistance spot welding using Ultrasonic testing and Artificial Neural Network (ANN) approach, **2020**

E. Salehi, Combined fretting fatigue life estimation based on critical distance theory, **2020**

M. Mohammadi Amiri, Experimental study and finite element modeling of the effect of microstructure on fracture behavior of solder joints, **2020**

A. Sharifi, Experimental and finite element studies on the low cycle fatigue behavior of magnesium alloy, **2020**

M. A. Ganjabi, Effect of different defect of spot welded joint in automotive body on fatigue strength: Experimental and numerical investigation, **2019**

A. Ahmadi, Developing a fatigue life assessment method for vehicle BIW by considering spot welding joints, **2019**

N. Amiri, Reliability of Ultrasonic technique used for defect detection of spot welded plates in automotive industry, **2019**

M. Minaei, Effect analysis of arrangement, sequence and plate thickness of spot welding on residual stress and fatigue life of the joint, **2018**

A.H. Borjali, Effects of using sheath on fixation strength of Bashti Bone Plug Technique (BBPT) in an Anterior Cruciate Ligament (ACL) reconstruction, **2017**

R. Tangestani, Investigation of the effective parameters and procedures to reduce residual stress of parts produced by wire arc additive manufacturing (WAAM), **2017**

R. Bikdelo, Effects of laser peening with different coverage areas on residual stress and fatigue crack growth, **2017**

T. Hosseinzadeh, Experimental and finite element analysis of fatigue life for vehicle steering knuckle under road driving test, **2017**

S. Mirmehdi, Investigation on the effect of constraint on fracture energy and fracture load prediction of solder joints using finite element modeling, **2017**

B. Ahmadikia, High and Low Cycle Fatigue Behavior of Severe Shot Peened Welded Joints, **2016**

A. Fallah, Characterisation of Mechanical Fracture Properties of an Alloy Steel Using Small-punch-test, **2016**

M. A. Hosseinimehr, Reliability Study of Steel Welded Joints after Post-Weld Heat-Treatment and Shot Peening, **2016**

R. Sarkarde, Effect of cryogenic treatment on distribution of residual stress and wear resistance, **2015**

M. Moradi, Molecular Dynamic Simulation of Crack Propagation in Polycrystalline Materials, **2015**

M. Ehsani, Finite Element Analysis of Repair Welding Residual Stress in Pressure Vessel and Piping Component, **2015**

E. Rahmani, Determination of fatigue behavior of nanostructure of severe shot peened A356.0, **2014**

H. Jafarzadeh, Determination of mechanical and fracture properties of nanostructure of severe shot peened A356.0 at room temperature, **2014**

M. Esmaili, wear behaviour of nanostructure of severe shot peened Aluminium alloy, **2014**

M. Nazemian, Finite element simulation of nanoindentation and nanoscratch tests on nano coating, **2014**

M. Ghodrati, Numerical simulation of Al-Si alloy fatigue behavior under thermo-mechanical and isothermal loadings, **2013**

M. Rezvanirad, Simulation of thermal barrier coating under thermo-mechanical and low cycle fatigue loadings, **2013**

A. Shamloo, Cyclic behavior modeling of magnesium alloy (AZ91) under thermo-mechanical and low cycle fatigue loadings, **2013**

M. Felfeli, Modeling stress-strain behavior of Aluminum alloy (A356.0) under thermo-mechanical loading, **2013**

V. Kazerani, Test methodology and wear characteristics of material at subzero temperature, **2012**

H.R. Assemani, Influence of shot peening and post heat treatment on fatigue life of welded tubular joint and determination of residual stress relaxation during fatigue loading, **2012**

M.R. Eftekhari, Optimization of fillet rolling of ductile cast iron crankshaft in order to increase the bending fatigue resistance, **2011**

M. Chamani, Residual stress determination of multi-pass welding process, stress relieving procedures and its effect on crack propagation, **2011**

M.S. Ghorashi, Effects of APS coating on wear characteristic of internal combustion engine cylinder, **2011**

H. Norooznehad, Failure analysis of torsion bar and improvement of manufacturing processes, **2010**

K. Sherafatnia, Free vibration and buckling analysis of functionally graded beams with edge cracks using Reddy's shear deformation beam theory, **2010**

S. M. H-Gangaraj, Effect of Grinding and Shot Peening on Fatigue Life of Welded Joints, **2009**

A. Yari Boroojeni, Fatigue life calculation of jack-up welded joint considering residual stress and elliptical crack, **2009**

S.A.H. Kashani, Determination of residual stress by instrumented indentation, **2009**

R. Jahedi, A Thermal Analysis on Journal of Rotor, GE-F5, on Residual Stress Relaxation and Modification on increased Local Hardness by Heat Treatment, **2008**

E. Masoumi Khalil Abad, Failure Analysis of Compressor Disk, **2008**

M. Maleki, Residual Stress Analysis in Autofrettaged Compound Spherical Pressure Vessels Considering Actual Material Behavior and Bauschinger Effect, **2008**.

B. Haghpanah J., A comparison between FGM Spherical and Cylindrical Autofrettaged Pressure Vessels considering the Bauschinger effect, **2008**

M. Mirmousayi, Prediction of Fatigue Crack Growth Through residual stress (Far & Near) Fields, **2008**.

A. Moradi, Prediction of Fatigue Crack Growth for Different R-Ratios Considering Cyclic Plasticity Near the Crack Tip, **2007**.

M. Sistaninia, Thermal Analysis of Laser Hardening, **2007**.

S. H. Hoseini, Determination of Residual Stresses in Autofrettaged Compound Tubes Prior to Shrink-fit, **2006**.

M. Mohammadi, Determination of Residual Stresses in Shrink-fit Prior to Autofrettaged Compound Tubes, **2006**.

A. H. Mohajerani, Study of Fretting Fatigue in Gas Turbine and Effect of Residual Stresses on Turbine Life, **2005**.

R. Jabery, Effect of Transverse and Longitudinal Cracks of Frequencies and Mode Shapes of Pressure Vessels, **2005**.

H. Ghadbeigy, The Effect of Heat Treatments and Shot-Peening on Fatigue Life of Cold Forging Dies, **2005**.

M. Karimi, Reliability Analysis of Tubular Joints of offshore Platforms Based on Fatigue Cracks Growth, **2005**.

A. Montazeri, Determination and Measurement of residual stress in a Thick-Walled Cylinder by Hole-Drilling, **2004**.

M. Saeedifar, Finite element Method Application in Vehicle Crash Analysis, **2004**.

R. Moslemi, An Elasto-plastic Model Based on Variable Material Property for Determining Residual Stresses using Hole-Drilling, **2004**.

A. Sadighi, Failure Analysis of a Notched Shaft under Multiaxial Loading by FE Method, **2004**.

F. Hosseinzadeh, The Effect of Residual Stress Field on Fatigue Crack Closure and Crack Growth Behaviour of a Micro-alloy, Bu-Ali Sina University, **2003**.

S. M. Harati, The Effect of Carburizing and Shot-Peening on Contact Fatigue of Automotive Gears, Bu-Ali Sina University, **2003**.

Sh. Blouri, Consideration of Plasticity in Residual Stresses Measurement, Bu-Ali Sina University, **2003**.

H. Chinekesh, Effect of Contact Geometry on Fretting Fatigue for Aluminum Alloy Al-2024-T3, Bu-Ali Sina University, **2003**.

N. Habibi, Experimental and Numerical Study of Thread and Nut on Fatigue Life Bolts with Different Standard, Bu-Ali Sina University, **2003**.

M. R. Abbasi, Improvement of the Crash Behavior of the Vehicle Front Rail using New Design Aspects, **2003**.

R. Chopani Jouybari, Dimensional Accuracy Analysis of Cold Impact Extruded Components, **2003**.

A. Khalaj, Test Road Design for Vehicle Life Experiment, **2002**.

N. Shamsaie, Life Assessment of Vehicle Parts Under Random Dynamic Loads, **2002**.

- S. Darestani Farahani**, Effect of Surface Roughness Due to Shot Peening on Fatigue Strength, **2001**
- J. Seidi**, Determination of Mechanical Parameters of Fractures of Bovine Cortical Bone under Hundred Percent Humidity and 37⁰C, Bu-Ali Sina University, **2001**.
- A. Nouri**, Investigation of Effect of Fretting Fatigue on Aluminum, Bu-Ali Sina University, **2000**.
- H. Alizadeh**, Experimental Study of Dynamic Behavior of Structural Steel at High Strain Rate, Bu-Ali Sina University, **1999**.
- S. M. Hosseini**, Study of Wear, Design of a Wear Test Rig and Computer Simulation of Wear Mechanisms, Bu-Ali Sina University, **1999**
- R. Payvar**, Determination of Stress Intensity Factor by Buckner Weight Functions for a Semi-elliptical Internal Crack in a Thick-walled Cylinder, Bu-Ali Sina University, **1999**
- S. Shahbazian**, Investigation into initiation and propagation of fretting cracks, Bu-Ali Sina University, **1998**