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759

Supervised MSc Theses

#	Thesis title	By	Date
1	Extende Finite Element Method Analysis of continuum damage mechanics in particulate biocomposites	Mohammad Karimi & Seyed.Ali Sadough Vanini	November 2018
2	The Study of Fracture behavior of Bioglass composites using eXtended Finite Element Method	Arang Pazhouheshgar & Seyed.Ali Sadough Vanini	October 2018
3	Vibration and thermal buckling analysis of piezoelectric functionally graded nanobeams	Ali Rahmani & Seyed.Ali Sadough Vanini	June 2018
4	Numerical and experimental study of mechanical properties of nanoparticle reinforced polymericed foams	Mohammad Bahrani & Seyed.Ali Sadough Vanini	July 2017
5	Analysis of failure and crack constitution in cupper cast with electronless crystallization blast furnace and recover ways by welding process	Hamid Reza Alinaghian Elyaderani & Seyed.Ali Sadough Vanini	February 2017
6	Effects of ultrasonic impact treatment in fatigue-corrosion of weld toe stainless steel tube	Babak Fereidooni & Seyed.Ali Sadough Vanini	July 2016
7	Modeling of Impact Resistance of Shear Thickening Fluid, Silica nano particlespolyethylene Glycol	Amir Sedieqymoqadampour & Seyed.Ali Sadough Vanini	April 2016

8	Investigation of Semisolid Process Welding Characteristics of Tools Steels	Seyed Mostafa Shekarabi & Seyed.Ali Sadough Vanini	September 2015
9	Rheology investigation of shear thickening fluids under low velocity impact loading	Esmail Balali & Seyed.Ali Sadough Vanini	February 2015
10	Investigation the effects of ultrasonic impact treatment on corrosion fatigue behavior of high temperature steels	Morteza Daavari & Seyed.Ali Sadough Vanini	October 2014
11	A numerical & experimental study on high - velocity impact of elastomeric and elastic - plastic foams	Ali Taherkhani & Seyed.Ali Sadough Vanini	February 2014
12	Effect of Carbon Nanotube in Mechanical Properties of Nanocomposites Joints	Mohammad Reza Bagheri & Seyed.Ali Sadough Vanini	October 2013
13	Elastic stress analysis and prediction of failure initiation in FGS interfacial phase	& Seyed.Ali Sadough Vanini	March 2013
14	theoretical analysis of structural nanocomposites elastic modulus and comparison with experimental results	& Seyed.Ali Sadough Vanini	November 2012
15	Buckling of laminated panels reinforced with Shape Memory Alloys	& Seyed.Ali Sadough Vanini	October 2012
16	Investigation of elasto-plastic crack evolution in functionally graded steel	& Seyed.Ali Sadough Vanini	September 2012
17	Study of Rheological Behavior of A356 Aluminum Alloy in Semi-Solid State	Amin Jabbari Gullija & Seyed.Ali Sadough Vanini	September 2012
18	Modeling of Failure Strength and impact in functionally graded steels	& Seyed.Ali Sadough Vanini	February 2012
19	Theoretical and experimental analysis shape control of composite beam with shape memory alloy(SMA) actuator	Hasan Ghaedali & Seyed.Ali Sadough Vanini	March 2009
20	Evaluation of the effects of process parameters on the mechanical properties of thixoextruded parts	Seyed Meghdad Shariat Zadeh & Seyed.Ali Sadough Vanini	January 2009
21	investigation of mechanical properties and adhesion of coating deposited using a spin- coating technique	Ehsan Moazami Goodarzi & Seyed.Ali Sadough Vanini	March 2008
22	A NUMERICAL & EXPERIMENTAL STUDY OF THE BEHAVIOR OF ELASTOMERS UNDER IMPACT LOADING	Sattar Jedari Salami & Seyed.Ali Sadough Vanini	February 2008
23	MODELING AND SIMULATION OF THIXOBACKWARD-EXTRUSION PROCESS AND TEMPERATURE EFFECT ON FLOW CHARACTERISTICS OF THE SEMI-SOLID MATERIAL	Farzad Hosseini Yekta & Seyed.Ali Sadough Vanini	February 2008
24	NUMERICAL AND PHYSICAL MODELLING OF FLOW PATTERN OF MATERIAL IN FORGING PROCESS WITH PREFORMS DESIGNED THROUGH THE METHOD OF INTERPOLATION OF BOUNDARY ELEMENTS	Masoud Mirsaeidi & Seyed.Ali Sadough Vanini	February 2008
25	ARTIFICIAL NEURAL NETWORKS FOR FATIGUE LIFE PREDICTION OF COMPOSITES	Seyed Hossein Parhizgar & Seyed.Ali Sadough Vanini	November 2007

26	MODELING AND SIMULATION OF THIXOFORGING PROCESS	Vahid Pouyafar & Seyed.Ali Sadough Vanini	January 2007
27	ANALYSIS OF COMPOSITE SHEET THERMOFORMING	Mehdi Shirani & Seyed.Ali Sadough Vanini	January 2007

Books

#	Title	Author(s)	Publisher country	publication date	version
Portal Records					
1	Composite Technology	Seyed.Ali Sadough Vanini	Iran (Islamic Republic of)	November 2006	0
2	Introduction to Materials Science	Seyed.Ali Sadough Vanini	Iran (Islamic Republic of)	May 2008	3
3	Heat Treatment of Metals and Alloys	Seyed.Ali Sadough Vanini	Iran (Islamic Republic of)	May 2007	2
4	Heat Treatment of Metals and Alloys	Seyed.Ali Sadough Vanini	Iran (Islamic Republic of)	March 2005	1
5	Introduction to Materials Science	Seyed.Ali Sadough Vanini	Iran (Islamic Republic of)	December 2004	2
6	Introduction to Materials Science	Seyed.Ali Sadough Vanini	Iran (Islamic Republic of)	December 2003	1
7	The Shape memory Alloys in Medical Engineering	Seyed.Ali Sadough Vanini	Iran (Islamic Republic of)	December 2002	1

Journal Papers

Portal Records					
1	Erfan Salari, Seyed.Ali Sadough Vanini, Alireza Ashoori, A.H.Akbarzadeh, "Nonlinear thermal behavior of shear deformable FG porous nanobeams with geometrical imperfection: snap-through and postbuckling analysis", INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, March 2021 Vol. 178, Num. 0, Page 1-19, March 2021,				
2	Erfan Salari, Seyed.Ali Sadough Vanini, "Investigation of thermal preloading and porosity effects on the nonlocal nonlinear instability of FG nanobeams with geometrical imperfection", EUROPEAN JOURNAL OF MECHANICS A-SOLIDS, December 2020 Vol. 86, Num. 0, Page 1-22, December 2020,				
3	Arang Pazhouheshgar, Amirhossein Moghanian, Seyed.Ali Sadough Vanini, "The extended finite elements method numerical and experimental analysis of mechanical behavior of polysulfone/58s bioactive glass synthesized through solvent casting method", Modares Mechanical Engineering, August 2020 Vol. 20, Num. 8, Page 2061-2073, August 2020,				
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- 128 Mahmoud Shakeri, Bijan Mollaei Dariani, Seyed.Ali Sadough Vanini, "Forming Limit Diagram Of Metal Computational Method " , , March 2001

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- 135 Bijan Mollaei Dariani, Mahmoud Shakeri, Seyed.Ali Sadough Vanini, "Theoretical study of sheet metal formability (second part) ", , February 1999
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- 142 Bijan Mollaei Dariani, Mahmoud Shakeri, Seyed.Ali Sadough Vanini, "Technique for determining forming limit diagram in sheet metals formability ", , May 1996
- 143 Seyed.Ali Sadough Vanini, Faramarz Soltankhah Bidokhti, "The effect of alloy making method in mechanical behavior of powder metallurgy steels ", , January 1996
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- 145 Seyed.Ali Sadough Vanini, "The effect on dissolution and passivation of ion implatation of nitrogen and molybdenum in austenitic stainless steels ", , May 1995
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- 148 Seyed.Ali Sadough Vanini, P Lehr, "Comportement en fatigue oligocylique de i,acier inoxydable Z3CN18-10 a 2o et-196 degr,es ", , May 1994
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- 152 Nazgol Adibi, Gholamreza Faraji, Seyed.Ali Sadough Vanini, Masoud Rahmanian, "Spherodisation phenomena in boiler tubes ", , January 1994
- 153 Seyed.Ali Sadough Vanini, ".Ionic implantation technic mechanical engineering department ", , January 1992
- 154 Seyed.Ali Sadough Vanini, "Stress corrosion cracking of austenitic stainless steels in refinery environments ", , October 1991
- 155 Seyed.Ali Sadough Vanini, "Low cycle fatigue behavior and strain induced martensitic transformation on an low carbon austenitic stainless steel at room and liquid nitrogen temperatures ", , January 1991

Taught Courses

#	Course title	Description	Headlines	Date
1	Advanced Heat Treatment	ارائه فرایندها و پیش بینی رفتار مواد و آلیاژهای فلزی پس از عملیات حرارتی و مکانیکی		Spring 2021
2	Research Method & Report Writings	sem		Spring 2021
3	Composite Technology, Forming Processes & Lab	PRINCIPLES of the MANUFACTURING OF COMPOSITE MATERIALS		Spring 2021
4	Science of Materials	شناخت خواص مواد و عوامل موثر بر آنها، شناخت مواد مهندسی و انتخاب مواد بر اساس طراحی، رفتار ذاتی و عارضی، بارهای موثر، محیط و هزینه ها		Fall 2020
5	Research Method & Report Writings	sem		Fall 2020
6	Research Method & Report Writings	sem		Spring 2020
7	Composite Technology, Forming Processes & Lab	PRINCIPLES of the MANUFACTURING OF COMPOSITE MATERIALS		Spring 2020
8	Mechanical Behavior of Materials	بررسی ریز ساختار مواد و رابطه رفتار مکانیکی، فیزیکی و شیمیایی با سازماندهی اجزای مواد در ابعاد ماکروسکپی، میکروسکپی و نانو		Fall 2019
9	Material Science Lab	آموزش روشهای آماده سازی نمونه جهت بررسی میکروسکپی و شناخت ریز ساختار و رفتار مکانیکی مواد آلیاژی پر مصرف و عملیات حرارتی آنها		Fall 2019
10	Research Method & Report Writings	sem		Fall 2019