

Location	Paper Theme	Paper Title & Authors
108.	Micro and Nano Mechanics	The Effect of Fluid Flow in Laminar Boundary Layer on Divergence Instability of a Rectangular Microplate Subjected to Nonuniform Electrostatic Pressure Amin Lotfiani , Shahram Khalilarya , Ghader Rezazadeh
109.	Micro and Nano Mechanics	Effect of nonbonded interactions on the mechanical properties of single-walled carbon nanotubes K. Yazdchi , M. Salehi , M.M. Shokrieh
110.	Micro and Nano Mechanics	Analytical and numerical techniques to predict wavy carbon nanotubes properties K. Yazdchi , M. Salehi , M.M. Shokrieh
111.	Simulation and Optimization	Bursting Failure Prediction in Tube Hydro forming Process by using Ductile Fracture Criterion Combined with FEM M.H. Kargarnovin , Y. Ashouri
112.	Simulation and Optimization	Numerical and Experimental analysis of cellulose sheet Hot-pressing M. Golzar , A.Ghaderi
113.	Other(computational)	Application of Neural networks in prediction of beams natural modes Moosa Babaei Nasir , AsAd Modares Motlagh
114.	Computational Algorithm	On a Stochastic Model for a Thermal Spray Coating Process: Prediction of Coating Thickness and Porosity Mohammad P. Fard , Alireza Teymourtash , Ebrahim Kamali
115.	Modeling of Dynamic Systems	Modeling Heavy-Duty Power Plant Gas Turbine Using NARX Identification Techniques Hadi Ghorbani
116.	Modeling of Dynamic Systems	Development of Lower Extremity Neuro-Musculoskeletal System in Virtual Environment A. Selk Ghafari , A. Meghdari , G.R. Vossoughi

117.	Control (Nonlinear - Adaptive - Optimal - Robust - Digital)	A Composite Structure for Robust Control of a Rotational/Translational Proof-Mass Actuator System Ali Chaibakhsh ,Khalil Alipour
118.	Vibration (Nonlinear and Chaotic - Theoretical and Experimental Modal Analysis - Acoustic)	Bolted Lap-Joints Modeling and Identification Hassan Jalali , Hamid Ahmadian
119.	Other (Dynamic&Vibration)	Experimental Investigation of GRP panels containing coarse size sand filler under high velocity impact. A R Sabet, M H Beheshty,* H Rahimi
120.	Other (Dynamic&Vibration)	Optimization of containers handling by using Ant colony Algorithm Ali Dehghanian , Kambiz Alempour
121.	Other (Dynamic&Vibration)	A Novel Approach for Direct Kinematics Solution of 3-RRR Parallel Manipulator Following a Trajectory P. Mahmoodinia ,K. Kamali ,A. Akbarzadeh-T.
122.	Plasticity	Application of kinematic hardening and ductile plastic damage models in analysis of a thin pressure vessel under thermal and mechanical loadings A. Nayebi , K. Fadaei
123.	Plates and shells	Vibration of functionally graded cylindrical shells based on third order shear deformation shell theory with ring support under clamped-simply support boundary conditions Mohammadreza Isvandzibaei, Ali Moarrefzadeh
124.	Other (solid mechanic)	Application of Fuzzy System Theory to Conceptual Airplane Design cycle Mehran Ali Azizi Oroumieh , S.Mohamad Bagher Malaek , Mahmud Ashrafizadeh , S.Mahmud Tahery

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87)	Computational Fluid Dynamics	Numerical Analysis of Supercavitating flows over 2D and 3D bodies N.M.Nouri,S.M.Mirszaeedi,M.Moghimi
88)	Micro and Nano Mechanics	Effect of interactive normal and lateral stiffness and damping and tip dimensions on the flexural vibration modes of rectangular AFM cantilevers Mehdi Shekarzadeh , Abbas Rahi
89)	Micro and Nano Mechanics	Effects of Abrasive Particle Characteristics on the Impact of Single Crystal Silicon Using hybrid "MD-FEA" simul Bohayra Mortazavi , Akbar Afaghi Khatibi , Kaveh Gharibi
90)	Finite Elements	Modeling of single-particle impact in abrasive water jet machining S. Y. Ahmadi-Brooghani , H. Hassanzadeh , P. Kahhal
91)	Simulation and Optimization	Optimization in deep drawing process P.M.Kashtiban , B.Arezo , D. Ghaffari Tari
92)	Other(computational)	Application of natural element method in fracture analysis of a mixed mode problem using Domain form of interaction integral shahin saeedifar , Gholamhosein Bradaran
93)	Modeling of Dynamic Systems	AIRCRAFT SEAT CUSHION DYNAMIC BEHAVIOR AT EXTREME RANGES OF TEMPERATURES Hamid Kh. Beheshti , H.M.Lankarani
94)	Modeling of Dynamic Systems	Design of a Semi-Active Semi-Passive Assistive Device for Sit-to-Stand Tasks A. Fattah, PhD. , M. Hajiaghamemar , A. Mokhtarian
95)	Control (Nonlinear - Adaptive - Optimal - Robust - Digital)	Genetic Optimization of Fuzzy Active Suspension System Based on Full-Vehicle Model M. Montazeri-Gh , M. Soleymani , M. Hadavand
96)	Control (Nonlinear - Adaptive - Optimal - Robust - Digital)	Motion control of an underactuated planar 3-DOF biped robot using time-scale method R. Dehghani, Ph.D. Candidate, A. Fattah, Ph.D

97)	Other (Dynamic and vibration)	Driving Pattern Recognition and Prediction Using Neural Networks Morteza Montazeri-Gh , Abbas Fotouhi
98)	Other (Dynamic and vibration)	Kinematics Modeling and simple optimal path planning for one type of climbing robot Hossein Dadkhah
99)	Other (Dynamic and vibration)	Simulation of compacting in powder metallurgy and study of speed and friction on operation of die by 3D DEM Masood Rezaeizadeh , Majid Fooladi , Hosein Mansouri
100)	Impact in Mechanical Structures	Numerical Analysis of Crashworthiness of Circular and Square Tubes under Axial Crashing Mahdi Said Kiasat , Amir Najibi
101)	Fracture Mechanics	Application of Monotonic Tests for Predicting Failure Behaviour of Rail Vehicle Steel Wheels, ali asadi lari , S.H Hashemi
102)	Other	Fatigue crack growth rate of a Pressure Vessel: Experimental and Computational model <i>A.Zare ,M.R.Nami</i>

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102.	Combustion and Pollution	Developing a mathematical model of dust flame by involving heat transfer between gas and particles Rahbar .Jadidi A .M , Shabani Shahrabaki .A , Bidabadi .M
103.	Finite Elements	Damage evolution and crack propagation in axial and biaxial tensile tests F. Haji Aboutalebi , M. Farzin , H. Khademyzadeh
104.	Simulation and Optimization	The Effects of Inlet Valve Lift Profile Variation on Volumetric Efficiency and In-Cylinder Turbulence Characteristics in a Heavy Duty Diesel Engine. <i>Mohammad hasan Shojaeefard , Alireza Noorpoor , Mehdi Sadegh kazemi</i>
105.	Control (Nonlinear - Adaptive - Optimal - Robust - Digital)	Efficient Control of Superheater Steam Temperature Ali Chaibakhsh
106.	Control (Nonlinear - Adaptive - Optimal - Robust - Digital)	New Simple Approach to Design an Antilock Brake System M. Bayani Khaknejad , R. Kazemi , , Sh. Azad
107.	Other(dynamic&vibration)	Performance Control of Hybrid dynamical Systems Esmaeel Khanmirza, Aghil Yousefi-Koma , Bahram Tarvirdizadeh
108.	Other-(dynamic&vibration)	Study of lifter profile and speed of SAG mills effect on impact forces, moment and tumbling by using 3D DEM Masood Rezaeizadeh , Majid Fooladi, Hosein Mansouri
109.	Fracture Mechanics	Fracture analysis of second piston compression ring Iman Razmi, Naghdali Choupani
110.	Plates and shells	Simultaneous modification of vibration and buckling characteristics of plates using the first and second order eigenderivatives Shima Shahab , Reza Mirzaeifard , Hamid Bahai
111.	Plates and shells	Performance Investigation of Different Types of Adhesive T-Joints under Axial and Transverse Loading, in Composite Structures Ehsan Selahi , Seyed Mahmoud Reza Alhayari
112.	Other (Solid mechanic)	Trajectory Optimization for Steel Balls Impacting on Rectangular Shell Liners Salman Ebrahimi-Nejad , Majid Fooladi-Mahani , Mohammad Razani

Thursday (Morning)

15 May 2008

10:30 – 12

Second Floor of “HIGH TECH”

Location	Paper Theme	Paper Title & Authors
94.	Micro and Nano Mechanics	Effect of small length scale on elastic buckling of double-walled carbon nanotube using Timoshenko beam theory M. Mohammadimehr , A. R. Saidi , A. Ghorbanpour Arani
95.	Micro and Nano Mechanics	The Effect of Fluid Properties on the Operation of Thermal Bubble jet F.Mobadersani , H.Saffari , T.Hadjilounezhad , P.Kahroba
96.	Finite Elements	Rolls Wearing Prediction in the Reshaping Process Using 3D-FEM Hesam Validi , Hassan Moslemi Naeini , Mehdi Tajdari
97.	Modeling of Dynamic Systems	Effect of Driver’s Time Delay on the Stability of Vehicle Ali Ghaffari , Javad Ahmadi , Reza Hasanzadeh Ghasemi
98.	Control (Nonlinear - Adaptive - Optimal - Robust - Digital)	MPC-Relevant Identification: Theory and Case Study F. Mohandespour , J. Poshtan
99.	Other (Dynamic &vibration)	Modeling and Pressure/Flow Control of a Robotic Arm Single Stage Valve Ardeshir Karami Mohammadi , <i>Hassan Pirzadeh Moghaddam</i>
100.	Other (Dynamic &vibration)	A Neural Network Fault Diagnosis Method applied for Faults in Intake System of an SI Engine xReza Chini , Dr. Amir Hossein Shamekhi , Mohammad Hassan Behroozi
101.	Other (Dynamic &vibration)	Dynamics of Suspended Wheeled Manipulators Khalil Alipour, S. Ali A. Moosavian ,Yousef Bahramzadeh
102.	Elasticity	Failure Mode of Resistance Spot Welds during Tensile-Shear Test: M. Pouranvari, P. Marashi , M. Goodarzi
103.	Plates and shells	Stress analysis of thick functionally graded plates with piezoelectric layers under static loading using layerwise finite element model M. Shakeri , Mirzaeifar
104.	Other (solid Mechanic)	Experimental and Finite Element Analysis of an ElectroMechanical Pressure Sensor Amirreza Ghanei Mohammadi , Ghader Faraji , Hossein Farahmandzad
105.	Other (solid Mechanic)	Evaluating Tribological Behavior of Ti ₃ SiC ₂ Ternary Compound for Use as Solid Lubricant M. B. Rahaei, S. K. Sadrnezhaad, T. Ebadzadeh, A. Shafiye, M. kholghi, E. Keshavarz, M. Rahimipour, M. Rahaei

Location	Paper Theme	Paper Title & Authors
97.	Micro and Nano Mechanics	Bending Modulus and Young Modulus of Multilayered graphene sheet M. Chehelamirani , R. Naghdabadi ,A. N. Sohi
98.	Micro and Nano Mechanics	Dynamic pull-in analysis of Circular and Rectangular microplates under the squeeze-film damping effect S.ahmad tajalli , M.T.ahmadian , mostafa pirmoradian
99.	Finite Elements	Strain and Sensitivity Analysis of Proximal Femur with Finite Element Method M. Haghpanahi , S. Zafari ,Y. Habibyar
100.	Other (Dynamic and vibration)	Dynamic Simulation of Brake System Components Javad Mosayebi, Ali Roshanbin ,Abbas Hooshmand
101.	Other (Dynamic and vibration)	Fatigue life estimation of MD36 and MD523 bogies based on damage accumulation and random fatigue theory Davood Younesian ,Ali Solhmirzaei ,Alireza Gachloo
102.	Other (Dynamic and vibration)	Hierarchical Clustering of Vibrational Features: a Method to Recognize Severity and Types of Rolling Element Bearing's Faults Dr. Mir Saeed Safizadeh , Ali Kahirdeh
103.	Impact in Mechanical Structures	Investigation of geometry effects on quasi-static axial crushing of rectangular thin-walled steel tubes Abolfazl Masoumi , Amir Najibi
104.	Other (solid mechanic)	Accelerated Tests in Engines M.Aslanimanesh