اینجانب در سال 1359 از دانشگاه شریف فارغ التحصیل شدم ودر سال 1365 فوق لیسانس خود را از دانشگاه بیر منگام انگلیس در یافت نمودم ودر سال 1369 دکترای خود را در دانشگاه باث آنگلیس به پایان رساندم ودر سال 1370 در دانشگاه تربیت مدرس مشغول به کار شدم در سال های اول در دانشگاه های امیرکبیر ـخواجه نصیر ـ شهید عباسپور ـمالک اشتر ـدانشکده مکانیک و دانشکده کشاورزی دانشگاه تربیت مدرس به تدریس دروس مختلف پرداختم در سال 88 به درجهٔ دانشیاری و در سال 99 به درجهٔ استادی نائل شدم حدود 50 دانشجوی کارشناسی ارشد و 10 دانشجوی دکترا را راهنمایی نمودم و حدود85 مقاله در مجلات خارج و داخل منتشر نموده ام و دو کتاب تألیف نموده ام تحقیقات اینجانب

- در زمینهٔ سیستم‌های میکرو، ماشین‌ابزار، اجزای وسایل نقلیه، سیستم‌های دوار، اتصالات مکانیکی , رشته

های حفاری, پایداری واگن , دیسک های پره دار و طراحی وتحلیل پایداری مکانیزم‌های مختلف می

باشد.

- نمونه ای از مقالات منتشر شده

☐ Parametric investigation of dynamics of beams made of FG material with longitudinal and whirling movement exposed to axial forces

A Forooghi, MR Ghazavi

Journal of Science and Technology of Composites 7 (4),2021,pp 1177-1188

☐ Size-dependent modal interactions of a piezoelectrically laminated microarch resonator with 3: 1 internal resonance

A Nikpourian, MR Ghazavi, S Azizi

Applied Mathematics and Mechanics 41 (10),2020,pp1517-1538

On the dynamics of a novel energy harvester to convert the energy of the magnetic noise into electrical power

A Ghodsi, H Jafari, S Azizi, MR Ghazavi

Energy 207, 118268,2020

☑ **Nonlinear Size-Dependent Analysis of an Initially Curved Microbeam**

A Nikpourian, MR Ghazavi

Modares Mechanical Engineering 19 (2),2019,pp 247-258

☑ ☑ **Analytical Primary Resonance of Size-Dependent Electrostatically Actuated Nanoresonator Under the Effects of Surface Energy and Casmir Force**S Rahmanian, S Hosseini-Hashemi, MR Ghazavi

International Journal of Applied Mechanics 11 (01),2019,p 1950002

☐ **On the numerical investigation of size and surface effects on nonlinear dynamics of a nanoresonator under electrostatic actuation**

S Rahmanian, MR Ghazavi, S Hosseini-Hashemi

Journal of the Brazilian Society of Mechanical Sciences and Engineering 41(1),2019,pp1-13 …

☐ **Vibro-acoustic and sound transmission loss analysis of truncated conical shell subjected to incident sound wave**

A Tebyanian, MR Ghazavi

Journal of Vibration and Control 25 (2),2019,pp 435-444

☐ **Size-dependent nonlinear behavior of a piezoelectrically actuated capacitive bistable microstructure**

A Nikpourian, MR Ghazavi, S Azizi

International Journal of Non-Linear Mechanics 114,2019,pp 49-61

Effects of size, surface energy and casimir force on the superharmonic resonance characteristics of a double-layered viscoelastic NEMS device under piezoelectric actuations

☐ S Rahmanian, MR Ghazavi, S Hosseini-Hashemi

Iranian Journal of Science and Technology, Transactions of Mechanical ,43(1),2019,pp343-355

Stability of a multi-body driveshaft system excited through U-joints

M SoltanRezaee, MR Ghazavi, A Najafi, S Rahmanian

Meccanica 53 (4), 2018,pp1167-1183

☐ **On the nonlinear dynamics of a piezoelectrically tuned micro-resonator based on non-classical elasticity theories**

A Nikpourian, MR Ghazavi, S Azizi

International Journal of Mechanics and Materials in Design 14 (1), 2018,pp1-19

A study of fluid media and size effect on dynamic response of microplate

M Aghababaie Beni, MR Ghazavi, G Rezazadeh

Modares Mechanical Engineering 17 (9),2017,pp 153-164

A conceptual study on the dynamics of a piezoelectric MEMS (Micro Electro Mechanical System) energy harvester,
S Azizi, A Ghodsi, H Jafari, MR Ghazavi
Energy 96, 2016,pp495-506

Nonlinear dynamic analysis of a four-bar mechanism having revolute joint with clearance
Sajad Boorghan Farahan, **MohammadReza Ghazavi***, **Sasan Rahmanian**
Journal of Theoretical and Applied Vibration and Acoustics 2(1) ,2016 pp90-105

Nonlinear Dynamics of the Rotational Slender Axially Moving String with Simply Supported Conditions, H. Heydari, M.R. Ghazavi, A. Najafi, S. Rahmanian,
IJE TRANSACTIONS C: Aspects Vol. 29, No. 06, (June 2016)pp 460-468

Novel mass detection based on magnetic excitation in anti-resonance region
H Jafari, A Ghodsi, MR Ghazavi, S Azizi
Microsystem Technologies,2016,pp 1-7

ANALYSIS OF THE DYNAMICS OF AN ELECTRO MECHANICAL ENERGY HARVESTER BEAM BASED ON PIEZOELECTRICITY
ALI GHODSI, H JAFARI, MR GHAZAVI, S AZIZI
MODARES MECHANICAL ENGINEERING 15 (10), 2016,pp128-136

Thermo-elastic damping in a functionally graded piezoelectric micro-resonator
S Azizi, MR Ghazavi, G Rezazadeh, SE Khadem
International Journal of Mechanics and Materials in Design 11 (4), 2015,pp 357-369

Bifurcation in planar slider–crank mechanism with revolute clearance joint
S Rahmanian, MR Ghazavi
Mechanism and Machine Theory 91,2015,pp86-101

DYNAMIC ANALYSIS OF A ROTOR SUPPORTED ON BALL BEARINGS WITH WAVINESS AND CENTRALIZING SPRINGS AND SQUEEZE FILM DAMPERS

☑

☐ Performance of different robust control methods for three-axis rotary syster

M SoltanRezaee, M Moghadam, MR Ghazavi

Modares Mechanical Engineering 18 (8),2018,pp 101-110

Stability of a Self-Excited Machine Due to the Mechanical Coupling

MS Rezaee, MR Ghazavi, A Najafi, WH Liao

International Journal of Mechanical and Mechatronics Engineering 12 (12 },2018,pp

1087-1091

☐ Nonlinear analysis of the micro/nanotube conveying fluid based on second
strain gradient theory

MR Ghazavi, H Molki

Applied Mathematical Modelling 60,2018,pp 77-93

☐ Parametric resonances for torsional vibration of excited rotating machineries
with nonconstant velocity joints

M SoltanRezaee, MR Ghazavi, A Najafi

Journal of Vibration and Control 24 (15),2018,pp 3262-3277

☐ On the dynamics of a capacitive electret-based micro-cantilever for energy
harvesting

M Ghavami, S Azizi, MR Ghazavi

Energy 153,2018,pp 967-976

Dynamic analysis of non-linear FE model of drillstring.
M Mohammadzadeh, MR Ghazavi ,A Alibeigloo
Modares Mechanical Engineering 14 (13), 2015pp119-130

SM Ahmadi, MR Ghazavi, M Sheikhzad
International Journal of Engineering-Transactions C: Aspects 28 (9), 2015,pp1351-1358

Nonlinear analysis of resonance between the blade and rotor by the bifurcation equation and numerical method.
A Najafi, MR Ghazavi, AA Jafari
Modares Mechanical Engineering 14 (12) 2015pp43-51

Analysis of dynamic behavior of FE model of drillstring-wellbore contact with improved contact model.
M Mohammadzadeh, M Ghazavi
Modares Mechanical Engineering 14 (11) 2015pp119-130

STABILITY ANALYSIS OF A THREE-AXIS POWER TRANSMISSION SYSTEM
RM SOLTAN, MR GHAZAVI, ALI A. JAFARI
MODARES MECHANICAL ENGINEERING 14 (1), 2015 pp35-44

Stability and bifurcations analysis of rotating shafts with base excitations
M Asgarisabet, MR Ghazavi, M Shahgholi
Nonlinear Dynamics 78 (4), 2014 pp2847-2859

Stability and Hamiltonian Hopf bifurcation for a nonlinear symmetric bladed rotor
A Najafi, MR Ghazavi, AA Jafari
Nonlinear Dynamics 78 (2), 2014 pp1049-1064

Application of Krein's theorem and bifurcation theory for stability analysis of a bladed rotor
A Najafi, MR Ghazavi, AA Jafari
Meccanica 49 (6), 2014 pp1507-1526

Free Vibration Analysis of Composite Plates with Artificial Springs by Trigonometric Ritz Method ,H Ghadirian, MR Ghazavi, K Khorshidi
Mechanics of Advanced Composite Structures 1 (1), 2014 pp61-70

Tuning the primary resonances of a micro resonator, using piezoelectric actuation
S Azizi, MR Ghazavi, G Rezazadeh, I Ahmadian, C Cetinkaya
Nonlinear Dynamics 76 (1), 2014pp839-852

Bifurcation and nonlinear analysis of nonconservative interaction between rotor and blade row
MR Ghazavi, A Najafi, AA Jafari
Mechanism and Machine Theory 65,2013 pp 29-45

Application of piezoelectric actuation to regularize the chaotic response of an electrostatically actuated micro-beam
S Azizi, MR Ghazavi, SE Khadem, G Rezazadeh, C Cetinkaya
Nonlinear Dynamics 73 (1-2), 2013 pp853-867

STABILITY OF A SYSTEM CONSISTING OF THREE-AXIS CONNECTED THROUGH HOOKE'S JOINTS
RM SOLTAN, MR GHAZAVI, AA JAFARI, A NAJAFI
MODARES MECHANICAL ENGINEERING 12 (6), 2013 pp69-79

Aplication of piezoelectric actuation to regularize the chaotic response of an electrostatically actuated micro-beam
Siamak Esmaeilzadeh Khadem, Ghader Rezazadeh & Cetin Cetinkaya
S Azizi, MR Ghazavi
Nonlinear Dyn 73,2013 pp 853-867

Bifurcation Analysis of High-Speed Railway Vehicle in a Curve
M Ranjbar, MR Ghazavi, AMAE,Int. J. on Production and Industrial Engineering, 4(1) 2013 pp13-18

Bifurcation Onset Delay in Magnetic Bearing Systems with Auxiliary Bearing and Time Varying Stiffness
MR Ghazavi, Q Sun
Mechanical Engineering Research 2 (2), 2012 pp88-96

Stabilizing slider-crank mechanism with clearance joints
AA Olyaei, MR Ghazavi
Mechanism and Machine Theory 53, 2012 pp17-29

Parametric excitation of a piezoelectrically actuated system near Hopf bifurcation
S Azizi, G Rezazadeh, MR Ghazavi, SE Khadem
Applied Mathematical Modelling 36 (4), 2012 pp1529-1549

Investigation of the Effect of Residual and Axial Stress, on Pull-in Instability of a Fully Clamped Micro-beam under Electrostatic Actuation, Considering Fringing Field Effect
S Azizi, MR Ghazavi, G Rezazadeh, F Mobadersani
Sensors & Transducers 139 (4), 2012pp45-54

Stability analysis of a parametrically excited functionally graded piezoelectric, MEM system
S Azizi, MR Ghazavi, SE Khadem, J Yang, G Rezazadeh
Current Applied Physics 12 (2), 2012 pp456-466

Stabilizing the pull-in instability of an electro-statically actuated micro-beam using piezoelectric actuation
S Azizi, G Rezazadeh, MR Ghazavi, SE Khadem
Applied Mathematical Modelling 35 (10),2011 pp 4796-4815

Nonlinear vibration analysis of an axially moving drillstring system with time dependent axial load and axial velocity in inclined well
SM Sahebkar, MR Ghazavi, SE Khadem, MH Ghayesh
Mechanism and Machine Theory 46 (5), 2011 pp743-760

Curvilinear fiber optimization tools for design thin walled beams
Z Zamani, H Haddadpour, MR Ghazavi
Thin-Walled Structures 49 (3), 2011 pp448-454

Pure parametric excitation of a micro cantilever beam actuated by piezoelectric layers
MR Ghazavi, G Rezazadeh, S Azizi
Applied Mathematical Modelling 34 (12), 2010 pp4196-4207

Non-linear vibration and stability analysis of an axially moving rotor in sub-critical transporting speed range
MH Ghayesh, MR Ghazavi, SE Khadem
Structural Engineering and Mechanics 34 (4), 2010 pp507-523

[Finite element analysis of static and dynamic pull-in instability of a fixed-fixed micro beam considering damping effects](#)
MR Ghazavi, G Rezazadeh, S Azizi
Sensors & Transducers 103 (4), 2009 pp132-143

[Dynamic simulations of the freight three-piece bogie motion in curve](#)
MR Ghazavi, M Taki
Vehicle System Dynamics 46 (10), 2008 pp955-973

[NON-LINEAR VIBRATIONAL ANALYSIS OF AN AXIALLY MOVING DRILLSTRING SYSTEM WITH TIME DEPENDENT AXIAL LOAD AND VELOCITY IN AN INCLINED WELL](#)
KS ESMAEILZADEH, MR GHAZAVI
AEROSPACE MECHANICS JOURNAL 4 (313), 2008 pp17-31

[Stick-slip oscillations of drag bits by considering damping of drilling mud and active damping system](#)
M Zamanian, SE Khadem, MR Ghazavi
Journal of Petroleum Science and Engineering 59 (3), 2007pp289-299

[EFFECT OF FORCE CONTROL SYSTEM ON POWER AND TIME CONSUMPTION IN ROBOTIC PRUNING MACHINE](#)
J MASAH, MR GHAZAVI, S MINAEI, MM MOHAMMADI
JOURNAL OF AGRICULTURAL SCIENCES 11 (3), 2005 pp232-244

[Design and Development of Robotic Pruning Machine with Force Control System](#)
J MASAH, MR Ghazavi, MM MOHAMMADI, S MINAEI
MODARES TECHNICAL AND ENGINEERING,20,2005 pp45-62

[DYNAMIC SIMULATION OF CRANK IN 4 CYLINDER INTERNAL COMBUSTION ENGINE](#)
M MAGHSOUDI, MR GHAZAVI
MODARES TECHNICAL AND ENGINEERING,6 2002 pp41-50

Selected Conference Papers

[Lateral Stability Analysis of High-Speed Railway Vehicle on Curve](#)

M Ranjbar, MR Ghazavi, Proc. of Int. Conf. on Advances in Robotic, Mechanical Engineering and Design 2012,pp13-17

Dynamic Stability of a System Including Three Shafts
MS Rezaee, AA Jafari, MR Ghazavi, Proc. of Int. Conf. on Advances in Robotic, Mechanical Engineering and Design 2012

EFFECT OF FORCE CONTROL SYSTEM ON POWER AND TIME CONSUMPTION OF TREE PRUNING MACHINE
J Massah, MR Ghazavi
Cercetari agronomice in Moldova (Romania) Vol. XLII , No.4 (140) , 2009