

Prof. HASAN NEVZAT ÖZGÜVEN

Personal Information

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Education Information

Doctorate, The University Of Manchester, Umist, United Kingdom 1975 - 1978

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Makine Mühendisliği (Dr), Turkey 1972 - 1975

Undergraduate, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, Turkey 1968 - 1973

Dissertations

Doctorate, An Investigation Into the Mathematical Modelling of Damped Mechanical Structures, The University Of Manchester, Umist, 1978

Research Areas

Mechanical Engineering, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 1989 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 1983 - 1989

Associate Professor, The Ohio State University, Faculty Of Engineering, Mechanical Engineering Department, 1985 - 1987

Assistant Professor, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 1980 - 1983

Lecturer, Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü, 1979 - 1980

Research Assistant, Middle East Technical University, Faculty of Engineering, 1973 - 1979

Academic and Administrative Experience

Middle East Technical University, Presidency Office, 2008 - 2016

Middle East Technical University, Presidency Office, 1995 - 1998

Advising Theses

ÖZGÜVEN H. N. , CİĞEROĞLU E., A parametric study on planetary gear dynamics, Doctorate, V.YALIN(Student), 2018

ÖZGÜVEN H. N. , INVESTIGATION OF DECOUPLING TECHNIQUES FOR LINEAR AND NONLINEAR SYSTEMS, Doctorate, T.KALAYCIOĞLU(Student), 2018

ÖZGÜVEN H. N. , CİĞEROĞLU E., A new modal superposition method for nonlinear vibration analysis of structures using

hybrid mode shapes, Postgraduate, E.FERHATOĞLU(Student), 2018

ÖZGÜVEN H. N. , Development of a model updating technique for nonlinear systems, Doctorate, G.CANBALOĞLU(Student), 2015

ÖZGÜVEN H. N. , Dynamic modelling in micromachining, Postgraduate, E.ERSOY(Student), 2015

ÖZGÜVEN H. N. , Analysis and modelling of machine tool dynamics and cutting stability during operation, Doctorate, O.ÖZŞAHİN(Student), 2014

ÖZGÜVEN H. N. , Active vibration control of beams and cylindrical structures using piezoelectric patches, Postgraduate, C.GENÇOĞLU(Student), 2014

ÖZGÜVEN H. N. , Identification of localized nonlinearity for dynamic analysis of structures, Doctorate, M.AYKAN(Student), 2013

KÜLAH H., ÖZGÜVEN H. N. , MEMS piezoelectric energy harvester for cochlear implant applications, Postgraduate, L.BEKER(Student), 2013

ÖZGÜVEN H. N. , Active vibration control of beam and plates by using piezoelectric patch actuators, Postgraduate, İ.FURKAN(Student), 2013

ÖZGÜVEN H. N. , Identification of nonlinearities in structural dynamics by using artificial neural networks and optimization, Postgraduate, A.KOYUNCU(Student), 2013

ÖZGÜVEN H. N. , CİĞEROĞLU E., Possibilistic interpretation of mistuning in bladed disks by fuzzy algebra, Postgraduate, H.ÇAĞLAR(Student), 2012

ÖZGÜVEN H. N. , Dynamic modeling of structural joints, Postgraduate, Ş.TOL(Student), 2012

ÖZGÜVEN H. N. , Harmonic response of large engineering structures with nonlinear modifications, Postgraduate, T.KALAYCIOĞLU(Student), 2011

ÖZGÜVEN H. N. , Determination of dynamically equivalent fe models of aircraft structures by using modal test data, Postgraduate, T.KARAAĞAÇLI(Student), 2010

ÖZGÜVEN H. N. , The effects of structural modifications on acoustic characteristics of enclosed bodies, Postgraduate, Ö.DEMİRKAN(Student), 2010

ÖZGÜVEN H. N. , CİĞEROĞLU E., On the non-linear vibration and mistuning identification of bladed disks, Postgraduate, M.ERSİN(Student), 2010

ÖZGÜVEN H. N. , Structural modification with additional degrees of freedom in large systems, Postgraduate, G.Canbaloglu(Student), 2009

ÖZGÜVEN H. N. , Nonlinear dynamic modeling and analysis of spindle-tool assemblies in machining centers, Postgraduate, Z.Murat(Student), 2009

ÖZGÜVEN H. N. , Nonlinear dynamic modeling and analysis of spindle-tool assemblies in machining centers ve doğrusal olmayan dinamik modellemesi, Postgraduate, Z.MURAT(Student), 2009

ÖZGÜVEN H. N. , Finite element structural model updating by using experimental frequency response functions, Postgraduate, M.ÖZTÜRK(Student), 2009

ÖZGÜVEN H. N. , Human tibial bone strength prediction by vibration analysis for diagnosing progressing osteoporosis, Postgraduate, B.BEDİZ(Student), 2009

ÖZGÜVEN H. N. , Development of a fast analytical method for prediction of part dynamics in machining stability analysis, Postgraduate, S.Alan(Student), 2009

ÖZGÜVEN H. N. , Harmonic vibration analysis of large structures with local nonlinearity, Postgraduate, D.ABAT(Student), 2009

ÖZGÜVEN H. N. , Nonlinear vibration of mistuned bladed disk assemblies, Postgraduate, G.Orbay(Student), 2008

ÖZGÜVEN H. N. , An investigation on dynamic contact parameters in machining center spindle tool assemblies, Postgraduate, O.ÖZŞAHİN(Student), 2008

ÖZGÜVEN H. N. , Modal identification of nonlinear substructures and implementation in structural coupling analysis, Postgraduate, Ö.ARSLAN(Student), 2008

ÖZGÜVEN H. N. , Vibration analysis of PCBs and electronic components, Postgraduate, B.AYTEKİN(Student), 2008

ÖZGÜVEN H. N. , Dynamic modeling and analysis of vibration effects on performance in optical systems, Postgraduate, A.LEVENT(Student), 2008

ÖZGÜVEN H. N. , Nonlinear vibrations of mistuned bladed disk assemblies, Postgraduate, G.ORBAY(Student), 2008

ÖZGÜVEN H. N. , Modelling part dynamicsin machining processes considering material removal, Postgraduate,

S.Atlar(Student), 2007

ÖZGÜVEN H. N. , Modeling part dynamics in machining processes considering material removal, Postgraduate, S.ATLAR(Student), 2007

ÖZGÜVEN H. N. , Development and comparative evaluation of a new structural modification method in application to aircraft structures, Postgraduate, S.Köksal(Student), 2006

ÖZGÜVEN H. N. , Steady-state modeling of detonation phenomenon in premixed gaseous mixtures and energetic solid explosives, Postgraduate, A.Ertürk(Student), 2006

ÖZGÜVEN H. N. , An investigation on the application of operational modal analysis, Postgraduate, F.Büke(Student), 2006

ÖZGÜVEN H. N. , Investigation of model updating techniques and their applications to aircraft structures, Postgraduate, M.Tuğrul(Student), 2006

ÖZGÜVEN H. N. , Non-linear mathematical modeling of gear rotor bearing systems including bearing clearance, Postgraduate, N.Ersan(Student), 2005

ÖZGÜVEN H. N. , Damage detection in structures using vibration measurements, Postgraduate, M.Özgür(Student), 2003

ÖZGÜVEN H. N. , Non-linear vibration analysis of bladed disks with dry damper, Postgraduate, E.CİĞEROĞLU(Student), 2002

ÖZGÜVEN H. N. , A New method on identification of symmetrical non-linearities in structures, Postgraduate, M.BÜLENT(Student), 1999

ÖZGÜVEN H. N. , Dynamic analysis of spur gears, Postgraduate, C.ULAŞ(Student), 1999

ÖZGÜVEN H. N. , Computer based teaching using hypermedia for the mechanical vibration course., Postgraduate, M.ÖZBEK(Student), 1996

ÖZGÜVEN H. N. , Dynamic analysis of multi-stage helical geared rotors with transfer matrix method, Postgraduate, S.TARKAN(Student), 1994

ÖZGÜVEN H. N. , Non-linear dynamic analysis of geared rotors to internal excitation by using describing functions and finite element methods, Doctorate, R.MALİHA(Student), 1994

ÖZGÜVEN H. N. , Harmonic forced vibration analysis of assembled structures with nonlinear coupling, Postgraduate, M.DEVRİM(Student), 1994

ÖZGÜVEN H. N. , Vibration analysis of damped structures and structural reanalysis using a new structural modification method, Postgraduate, M.TAHTALI(Student), 1992

ÖZGÜVEN H. N. , Dynamic modeling and analysis of multi-gear rotors including lateral and torsional vibration coupling, Postgraduate, D.YILMAZ(Student), 1991

ÖZGÜVEN H. N. , Fault diagnosis of gears by computer simulation, Postgraduate, M.YALÇINTAŞ(Student), 1990

ÖZGÜVEN H. N. , Vibration analysis of structures using substructure synthesis, Postgraduate, N.ÇETİNKAYA(Student), 1989

ÖZGÜVEN H. N. , Dynamic analysis of geared shaft systems by using continuous system models, Postgraduate, Ö.SAADET(Student), 1989

ÖZGÜVEN H. N. , Dynamic analysis of nonlinear structures for harmonic excitation, Postgraduate, E.BUDAK(Student), 1989

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Ideal tooth profile modifications for improving nonlinear dynamic response of planetary gear trains**
Ozturk V. Y. , CİĞEROĞLU E., ÖZGÜVEN H. N.
JOURNAL OF SOUND AND VIBRATION, vol.500, 2021 (Journal Indexed in SCI)
- II. **Experimental modal analysis of nonlinear systems by using response-controlled stepped-sine testing**
Karaagacılı T., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.146, 2021 (Journal Indexed in SCI)
- III. **A frequency domain nonparametric identification method for nonlinear structures: Describing surface method**
Karaagacılı T., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.144, 2020 (Journal Indexed in SCI)

- IV. **A novel modal superposition method with response dependent nonlinear modes for periodic vibration analysis of large MDOF nonlinear systems**
Ferhatoglu E., Ciğeroğlu E., Özgüven H. N.
Mechanical Systems and Signal Processing, vol.135, 2020 (Journal Indexed in SCI)
- V. **A new modal superposition method for nonlinear vibration analysis of structures using hybrid mode shapes**
Ferhatoglu E., Ciğeroğlu E., Özgüven H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.107, pp.317-342, 2018 (Journal Indexed in SCI)
- VI. **FRF decoupling of nonlinear systems**
Kalaycoglu T., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.102, pp.230-244, 2018 (Journal Indexed in SCI)
- VII. **Localization and identification of structural nonlinearities using cascaded optimization and neural networks**
Koyuncu A., Ciğeroğlu E., Özgüven H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.95, pp.219-238, 2017 (Journal Indexed in SCI)
- VIII. **Model updating of nonlinear structures from measured FRFs**
Canbaloglu G., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.80, pp.282-301, 2016 (Journal Indexed in SCI)
- IX. **Identification of bearing dynamics under operational conditions for chatter stability prediction in high speed machining operations**
ÖZŞAHİN O., Budak E., ÖZGÜVEN H. N.
PRECISION ENGINEERING-JOURNAL OF THE INTERNATIONAL SOCIETIES FOR PRECISION ENGINEERING AND NANOTECHNOLOGY, vol.42, pp.53-65, 2015 (Journal Indexed in SCI)
- X. **Dynamic characterization of bolted joints using FRF decoupling and optimization**
Tol S., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, pp.124-138, 2015 (Journal Indexed in SCI)
- XI. **In-process tool point FRF identification under operational conditions using inverse stability solution**
ÖZŞAHİN O., Budak E., ÖZGÜVEN H. N.
INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, vol.89, pp.64-73, 2015 (Journal Indexed in SCI)
- XII. **Analytical modeling of asymmetric multi-segment rotor - bearing systems with Timoshenko beam model including gyroscopic moments**
Ozsahin O., ÖZGÜVEN H. N. , Budak E.
COMPUTERS & STRUCTURES, vol.144, pp.119-126, 2014 (Journal Indexed in SCI)
- XIII. **Nonlinear structural modification and nonlinear coupling**
Kalaycoglu T., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.46, no.2, pp.289-306, 2014 (Journal Indexed in SCI)
- XIV. **Parametric identification of nonlinearity in structural systems using describing function inversion**
Aykan M., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.40, no.1, pp.356-376, 2013 (Journal Indexed in SCI)
- XV. **Mistuning Identification of Integrally Bladed Disks With Cascaded Optimization and Neural Networks**
Yumer M. E. , Ciğeroğlu E., Özgüven H. N.
JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME, vol.135, 2013 (Journal Indexed in SCI)
- XVI. **A New Design Approach for Rapid Evaluation of Structural Modifications Using Neural Networks**
Demirkan O., Olceroglu E., BAŞDOĞAN F. İ. , ÖZGÜVEN H. N.
JOURNAL OF MECHANICAL DESIGN, vol.135, no.2, 2013 (Journal Indexed in SCI)
- XVII. **A new method to determine dynamically equivalent finite element models of aircraft structures from modal test data**
Karaağaçlı T., Yildiz E. N. , ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.31, pp.94-108, 2012 (Journal Indexed in SCI)
- XVIII. **Prediction of workpiece dynamics and its effects on chatter stability in milling**

- Budak E., Tunc L. T. , Alan S., ÖZGÜVEN H. N.
CIRP ANNALS-MANUFACTURING TECHNOLOGY, vol.61, no.1, pp.339-342, 2012 (Journal Indexed in SCI)
- XIX. **Parametric identification of structural nonlinearities from measured frequency response data**
Arslan O., Aykan M., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.25, no.4, pp.1112-1125, 2011 (Journal Indexed in SCI)
- XX. **Analysis and compensation of mass loading effect of accelerometers on tool point FRF measurements for chatter stability predictions**
ÖZŞAHİN O., ÖZGÜVEN H. N. , Budak E.
INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, vol.50, no.6, pp.585-589, 2010 (Journal Indexed in SCI)
- XXI. **Vibration measurements predict the mechanical properties of human tibia**
Bediz B., ÖZGÜVEN H. N. , Korkusuz F.
CLINICAL BIOMECHANICS, vol.25, no.4, pp.365-371, 2010 (Journal Indexed in SCI)
- XXII. **A method in model updating using Miscorrelation Index sensitivity**
Kozak M. T. , Öztürk M., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.23, no.6, pp.1747-1758, 2009 (Journal Indexed in SCI)
- XXIII. **Identification of structural non-linearities using describing functions and the Sherman-Morrison method**
Ozer M. B. , ÖZGÜVEN H. N. , Royston T. J.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.23, no.1, pp.30-44, 2009 (Journal Indexed in SCI)
- XXIV. **A closed-form approach for identification of dynamical contact parameters in spindle-holder-tool assemblies**
ÖZŞAHİN O., ERTURK A., ÖZGÜVEN H. N. , Budak E.
INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, vol.49, no.1, pp.25-35, 2009 (Journal Indexed in SCI)
- XXV. **Selection of design and operational parameters in spindle-holder-tool assemblies for maximum chatter stability by using a new analytical model**
Erturk A., Budak E., Ozguven H. N.
INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, vol.47, no.9, pp.1401-1409, 2007 (Journal Indexed in SCI)
- XXVI. **Effect analysis of bearing and interface dynamics on tool point FRF for chatter stability in machine tools by using a new analytical model for spindle-tool assemblies**
Ertuerk A., Oezgueven H. N. , Budak E.
INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, vol.47, no.1, pp.23-32, 2007 (Journal Indexed in SCI)
- XXVII. **Analytical modeling of spindle-tool dynamics on machine tools using Timoshenko beam model and receptance coupling for the prediction of tool point FRF**
Erturk A., Ozguven H. N. , Budak E.
INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, vol.46, no.15, pp.1901-1912, 2006 (Journal Indexed in SCI)
- XXVIII. **Nonlinear vibration analysis of bladed disks with dry friction dampers**
Cigeroglu E., Ozguven H. N.
JOURNAL OF SOUND AND VIBRATION, vol.295, pp.1028-1043, 2006 (Journal Indexed in SCI)
- XXIX. **A modeling approach for analysis and improvement of spindle-holder-tool assembly dynamics**
Budak E., Erturk A., Ozguven H. N.
CIRP ANNALS-MANUFACTURING TECHNOLOGY, vol.55, no.1, pp.369-372, 2006 (Journal Indexed in SCI)
- XXX. **Nonlinear dynamic modeling of gear-shaft-disk-bearing systems using finite elements and describing functions**
Maliha R., Dogruer C., Ozguven H. N.
JOURNAL OF MECHANICAL DESIGN, vol.126, no.3, pp.534-541, 2004 (Journal Indexed in SCI)
- XXXI. **A modal superposition method for non-linear structures**

- Kuran B., Ozguven H. N.
JOURNAL OF SOUND AND VIBRATION, vol.189, no.3, pp.315-339, 1996 (Journal Indexed in SCI)
- XXXII. **DYNAMIC ANALYSIS OF GEARED SHAFT SYSTEMS BY USING A CONTINUOUS SYSTEM MODEL**
Şener Ö. S. , ÖZGÜVEN H. N.
JOURNAL OF SOUND AND VIBRATION, vol.166, no.3, pp.539-556, 1993 (Journal Indexed in SCI)
- XXXIII. **FORCED HARMONIC RESPONSE ANALYSIS OF NONLINEAR STRUCTURES USING DESCRIBING FUNCTIONS**
TANRIKULU O., KURAN B., OZGUVEN H. N. , IMREGUN M.
AIAA JOURNAL, vol.31, no.7, pp.1313-1320, 1993 (Journal Indexed in SCI)
- XXXIV. **ITERATIVE RECEPTANCE METHOD FOR DETERMINING HARMONIC RESPONSE OF STRUCTURES WITH SYMMETRICAL NONLINEARITIES**
BUDAK E., OZGUVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.7, no.1, pp.75-87, 1993 (Journal Indexed in SCI)
- XXXV. **DYNAMIC ANALYSIS OF GEARED ROTORS BY FINITE-ELEMENTS**
KAHRAMAN A., OZGUVEN H. N. , HOUSER D., ZAKRAJSEK J.
JOURNAL OF MECHANICAL DESIGN, vol.114, no.3, pp.507-514, 1992 (Journal Indexed in SCI)
- XXXVI. **A NONLINEAR MATHEMATICAL-MODEL FOR DYNAMIC ANALYSIS OF SPUR GEARS INCLUDING SHAFT AND BEARING DYNAMICS**
OZGUVEN H. N.
JOURNAL OF SOUND AND VIBRATION, vol.145, no.2, pp.239-260, 1991 (Journal Indexed in SCI)
- XXXVII. **STRUCTURAL MODIFICATIONS USING FREQUENCY-RESPONSE FUNCTIONS**
OZGUVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.4, no.1, pp.53-63, 1990 (Journal Indexed in SCI)
- XXXVIII. **DYNAMIC ANALYSIS OF HIGH-SPEED GEARS BY USING LOADED STATIC TRANSMISSION ERROR**
OZGUVEN H. N. , HOUSER D.
JOURNAL OF SOUND AND VIBRATION, vol.125, no.1, pp.71-83, 1988 (Journal Indexed in SCI)
- XXXIX. **MATHEMATICAL-MODELS USED IN GEAR DYNAMICS - A REVIEW**
OZGUVEN H. N. , HOUSER D.
JOURNAL OF SOUND AND VIBRATION, vol.121, no.3, pp.383-411, 1988 (Journal Indexed in SCI)
- XL. **AN EXPERIMENTAL AND ANALYTICAL STUDY OF IMPACT FORCES DURING HUMAN JUMPING**
OZGUVEN H. N. , BERME N.
JOURNAL OF BIOMECHANICS, vol.21, no.12, pp.1061-1066, 1988 (Journal Indexed in SCI)
- XLI. **A NEW METHOD FOR HARMONIC RESPONSE OF NONPROPORTIONALLY DAMPED STRUCTURES USING UNDAMPED MODAL DATA**
OZGUVEN H. N.
JOURNAL OF SOUND AND VIBRATION, vol.117, no.2, pp.313-328, 1987 (Journal Indexed in SCI)
- XLII. **SUPPRESSING THE 1ST AND 2ND RESONANCES OF BEAMS BY DYNAMIC VIBRATION ABSORBERS**
OZGUVEN H. N. , CANDIR B.
JOURNAL OF SOUND AND VIBRATION, vol.111, no.3, pp.377-390, 1986 (Journal Indexed in SCI)
- XLIII. **ON THE CRITICAL SPEED OF CONTINUOUS SHAFT-DISK SYSTEMS**
OZGUVEN H. N.
JOURNAL OF VIBRATION ACOUSTICS STRESS AND RELIABILITY IN DESIGN-TRANSACTIONS OF THE ASME, vol.106, no.1, pp.59-61, 1984 (Journal Indexed in SCI)
- XLIV. **WHIRL SPEEDS AND UNBALANCE RESPONSE OF MULTIBEARING ROTORS USING FINITE-ELEMENTS**
OZGUVEN H. N. , OZKAN Z.
JOURNAL OF VIBRATION ACOUSTICS STRESS AND RELIABILITY IN DESIGN-TRANSACTIONS OF THE ASME, vol.106, no.1, pp.72-79, 1984 (Journal Indexed in SCI)
- XLV. **Receptances of non proportionally and continuously damped plates Reduced dampers method**
ÖZGÜVEN H. N.
Journal Of Sound And Vibration, vol.85, pp.383-395, 1982 (Journal Indexed in SCI Expanded)
- XLVI. **Receptances of non proportionally and continuously damped plates equivalent dampers method**

Books & Book Chapters

I. **New FRF Based Methods for Substructure Decoupling**

Kalaycıoğlu T., ÖZGÜVEN H. N.

in: Dynamics of Coupled Structures, Volume 4, Matt Allen, Randall L. Mayes, Daniel Rixen , Editor, Springer, pp.463-472, 2016

II. **Experimental Validation of Pseudo Receptance Difference (PRD) Method for Nonlinear Model Updating**

CANBALOĞLU G., ÖZGÜVEN H. N.

in: Nonlinear Dynamics, Volume 1, Gaëtan Kerschen , Editor, SPRINGER, pp.293-306, 2016

Refereed Congress / Symposium Publications in Proceedings

I. **Identifying the joint dynamics of a bolted beam system by using FRF decoupling and the SEMM expansion technique**

Klaassen S. W. B. , Ciğeroğlu E., Özgüven H. N.

TriboMechaDynamics 2019, Texas, United States Of America, 31 July - 02 August 2019, pp.1-4

II. **Dynamic characterization of double-relief profile modifications in planetary gear systems**

Öztürk V. Y. , Ciğeroğlu E., Özgüven H. N.

INTERNATIONAL GEAR CONFERENCE 2018, Lyon, France, 27 - 29 August 2018, pp.1-14

III. **Extended Abstract: Dynamic Behavior of a Compliant Mechanism Driven by Stacked Piezoelectric Actuators**

Koyuncu A., ŞAHİN M., ÖZGÜVEN H. N.

36th IMAC Conference and Exposition on Structural Dynamics, Florida, United States Of America, 12 - 15 February 2018, pp.77-79

IV. **Reduction of Helicopter Rotor Vibratory Loads Through Robust and Hybrid Optimization**

BİLEN M. E. , CİĞEROĞLU E., ÖZGÜVEN H. N.

6th Asian / Australian Rotorcraft Forum (ARF), 7 - 09 November 2017

V. **Dynamic Modelling of Split-Torque Face-Gear Drive Systems**

AYDOĞAN M. Ö. , SARIBAY Z. S. , ÖZGÜVEN H. N.

American Society of Mechanical Engineers International Design Engineering Technical Conferences, 6 - 09 August 2017

VI. **Dynamic Decoupling of Nonlinear Systems**

Kalaycıoğlu T., ÖZGÜVEN H. N.

35th IMAC Conference and Exposition on Structural Dynamics, California, United States Of America, 30 January - 02 February 2017, pp.199-203

VII. **Modeling and Measurement of Micro End Mill Dynamics Using Inverse Stability Approach**

YILMAZ E., BUDAK E., ÖZGÜVEN H. N.

7th CIRP Conference on High Performance Cutting (HPC), Chemnitz, Germany, 31 May - 02 June 2016, vol.46, pp.242-245

VIII. **A Modal Superposition Method for the Analysis of Nonlinear Systems**

Ferhatoglu E., CİĞEROĞLU E., ÖZGÜVEN H. N.

34th IMAC Conference and Exposition on Structural Dynamics, Florida, United States Of America, 25 - 28 January 2016, pp.269-278

IX. **Model Updating of a Nonlinear System: Gun Barrel of a Battle Tank**

Canbaloglu G., ÖZGÜVEN H. N.

34th IMAC Conference and Exposition on Structural Dynamics, Florida, United States Of America, 25 - 28 January 2016, pp.365-387

- X. **New FRF Based Methods for Substructure Decoupling**
Kalaycioglu T., ÖZGÜVEN H. N.
34th IMAC Conference and Exposition on Structural Dynamics, Florida, United States Of America, 25 - 28 January 2016, pp.463-472
- XI. **Optimization of Tooth Bending Fatigue Characteristics of Spur Gear Pairs Using a Gear Dynamics-Based Approach**
Ozturk Y., CİĞEROĞLU E., ÖZGÜVEN H. N.
ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, Massachusetts, United States Of America, 2 - 05 August 2015
- XII. **Optimization of Tooth Bending Fatigue Characteristics of Spur Gear Pairs using a Gear Dynamics based Approach**
ÖZTÜRK Y., CİĞEROĞLU E., ÖZGÜVEN H. N.
ASME 2015 International Design Engineering Technical Conferences, Boston, United States Of America, 2 - 05 August 2015
- XIII. **Dişlilerde Dinamik İletim Hatasını Azaltmaya Yönelik İdeal Profil Değişiklikleri**
Öztürk Y., CİĞEROĞLU E., ÖZGÜVEN H. N.
Uluslararası katılımlı 17. Makina Teorisi Sempozyumu / TrC-IFTtoMM Symposium on Theory of Machines and Mechanisms, 14 - 17 June 2015
- XIV. **Experimental Validation of Pseudo Receptance Difference (PRD) Method for Nonlinear Model Updating**
Canbaloglu G., ÖZGÜVEN H. N.
33rd IMAC Conference and Exposition on Structural Dynamics, Florida, United States Of America, 2 - 05 February 2015, pp.293-306
- XV. **Optimum Profile Modifications for the Minimization of Dynamic Transmission Error**
ÖZTÜRK V. Y. , CİĞEROĞLU E., ÖZGÜVEN H. N.
International Gear Conference, 26 - 28 August 2014
- XVI. **Nonlinear Structural Coupling: Experimental Application**
Kalaycioglu T., ÖZGÜVEN H. N.
32 International Modal Analysis Conference on Structural Dynamics, Florida, United States Of America, 3 - 06 February 2014, pp.241-248
- XVII. **Localization and Identification of structural nonlinearities using neural networks**
Yumer M. E. , Koyuncu A., CİĞEROĞLU E., ÖZGÜVEN H. N.
IMAC XXXI: Conference Exposition on Structural Dynamics, 11 - 14 February 2013
- XVIII. **Analytical modeling of the machine tool spindle dynamics under operational conditions**
ÖZŞAHİN O., Budak E., ÖZGÜVEN H. N.
37th International MATADOR 2012 Conference, Manchester, United Kingdom, 25 - 27 July 2012, pp.117-120
- XIX. **Finite Element Modeling of MEMS Piezoelectric Energy Harvester**
Beker L., Muhtaroglu A., ÖZGÜVEN H. N. , KÜLAH H.
NSTI Nanotechnology Conference and Expo (Nanotech 2012), Santa-Clara, Cuba, 18 - 21 June 2012, pp.633-636
- XX. **Harmonic Response of Large Engineering Structures with Nonlinear Modifications**
Kalaycioglu T., ÖZGÜVEN H. N.
8th International Conference on Structural Dynamics (EURODYN), Leuven, Belgium, 4 - 06 July 2011, pp.3623-3629
- XXI. **Investigating Dynamics of Machine Tool Spindles under Operational Conditions**
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