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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, The University of Manchester, Umıst, Birleşik Krallık 1975 - 1978

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), Türkiye 1972 - 1975

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Türkiye 1968 - 1973

Yaptığı Tezler

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

Araştırma Alanları

Makina Mühendisliği, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 1989 - Devam Ediyor

Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 1983 - 1989

Doç. Dr., The Ohio State University, Faculty Of Engineering, Mechanical Engineering Department, 1985 - 1987

Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 1980 - 1983

Öğretim Görevlisi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 1979 - 1980

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, 1973 - 1979

Akademik İdari Deneyim

Orta Doğu Teknik Üniversitesi, Rektörlük, 2008 - 2016

Orta Doğu Teknik Üniversitesi, Rektörlük, 1995 - 1998

Yönetilen Tezler

ÖZGÜVEN H. N., Dynamic modelling and analysis of split-torque face-gear systems, Doktora, M.ÖZGÜR(Öğrenci), 2022

Özgüven H. N., Şahin M., Design, modelling and analysis of a novel implantable bone conduction hearing aid with a piezoelectric actuator, Doktora, A.KOYUNCU(Öğrenci), 2022

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

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

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

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

KÜLAH H., ÖZGÜVEN H. N., MEMS piezoelectric energy harvester for cochlear implant applications, Yüksek Lisans, L.BEKER(Öğrenci), 2013

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

ÖZGÜVEN H. N., Dynamic modeling of structural joints, Yüksek Lisans, Ş.TOL(Öğrenci), 2012

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

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ÖZGÜVEN H. N., İşleme merkezlerinde mil-takım sistemlerinin incelenmesi ve doğrusal olmayan dinamik modellemesi, Yüksek Lisans, Z.Murat(Öğrenci), 2009

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

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

ÖZGÜVEN H. N., Düzensiz kanatçıklara sahip disklerde doğrusal olmayan titreşimler., Yüksek Lisans, G.Orbay(Öğrenci), 2008

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

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ÖZGÜVEN H. N., Titreşim ölçümlerini kullanarak yapılarda hasar tesbiti, Yüksek Lisans, M.Özgür(Öğrenci), 2003

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

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ÖZGÜVEN H. N., Dynamic analysis of multi stage helical geared rotors with transfer matrix method, Yüksek Lisans, S.TARKAN(Öğrenci), 1994

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ÖZGÜVEN H. N., Fault diagnosis of gears by computer simulation, Yüksek Lisans, M.YALÇINTAŞ(Öğrenci), 1990

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ÖZGÜVEN H. N., Dynamic analysis of nonlinear structures for harmonic excitation, Yüksek Lisans, E.BUDAK(Öğrenci), 1989

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

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. **Non-Linear Dynamic Modeling and Analysis of Split-Torque Face-Gear Drive Systems**
Aydogan M. O., Sarıbay Z. B., ÖZGÜVEN H. N.

JOURNAL OF VIBRATION AND ACOUSTICS-TRANSACTIONS OF THE ASME, cilt.145, sa.3, 2023 (SCI-Expanded)

- II. **Experimental Modal Analysis of Nonlinear Amplified Piezoelectric Actuators by Using Response-Controlled Stepped-Sine Testing**
Koyuncu A., Karaagacılı T., ŞAHİN M., ÖZGÜVEN H. N.
EXPERIMENTAL MECHANICS, cilt.62, sa.9, ss.1579-1594, 2022 (SCI-Expanded)
- III. **Experimental Quantification and Validation of Modal Properties of Geometrically Nonlinear Structures by Using Response-Controlled Stepped-Sine Testing**
Karaagacılı T., ÖZGÜVEN H. N.
EXPERIMENTAL MECHANICS, cilt.62, sa.2, ss.199-211, 2022 (SCI-Expanded)
- IV. **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, cilt.500, 2021 (SCI-Expanded)
- V. **Experimental modal analysis of nonlinear systems by using response-controlled stepped-sine testing**
Karaagacılı T., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, cilt.146, 2021 (SCI-Expanded)
- VI. **A frequency domain nonparametric identification method for nonlinear structures: Describing surface method**
Karaagacılı T., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, cilt.144, 2020 (SCI-Expanded)
- VII. **A novel modal superposition method with response dependent nonlinear modes for periodic vibration analysis of large MDOF nonlinear systems**
Ferhatoglu E., CİĞEROĞLU E., ÖZGÜVEN H. N.
Mechanical Systems and Signal Processing, cilt.135, 2020 (SCI-Expanded)
- VIII. **A new modal superposition method for nonlinear vibration analysis of structures using hybrid mode shapes**
Ferhatoglu E., Cığeroğlu E., Özgüven H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, cilt.107, ss.317-342, 2018 (SCI-Expanded)
- IX. **FRF decoupling of nonlinear systems**
Kalaycoglu T., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, cilt.102, ss.230-244, 2018 (SCI-Expanded)
- X. **Localization and identification of structural nonlinearities using cascaded optimization and neural networks**
Koyuncu A., Cığeroğlu E., Özgüven H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, cilt.95, ss.219-238, 2017 (SCI-Expanded)
- XI. **Model updating of nonlinear structures from measured FRFs**
Canbaloglu G., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, cilt.80, ss.282-301, 2016 (SCI-Expanded)
- XII. **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, cilt.42, ss.53-65, 2015 (SCI-Expanded)
- XIII. **Dynamic characterization of bolted joints using FRF decoupling and optimization**
Tol S., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, ss.124-138, 2015 (SCI-Expanded)
- XIV. **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, cilt.89, ss.64-73, 2015 (SCI-Expanded)
- XV. **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, cilt.144, ss.119-126, 2014 (SCI-Expanded)
- XVI. **Nonlinear structural modification and nonlinear coupling**
Kalaycioglu T., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, cilt.46, sa.2, ss.289-306, 2014 (SCI-Expanded)
- XVII. **Parametric identification of nonlinearity in structural systems using describing function inversion**
Aykan M., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, cilt.40, sa.1, ss.356-376, 2013 (SCI-Expanded)
- XVIII. **Mistuning Identification of Integrally Bladed Disks With Cascaded Optimization and Neural Networks**
Yumer M. E., Çiğeroğlu E., Özgüven H. N.
JOURNAL OF TURBOMACHINERY-TRANSACTIONS OF THE ASME, cilt.135, 2013 (SCI-Expanded)
- XIX. **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, cilt.135, sa.2, 2013 (SCI-Expanded)
- XX. **A new method to determine dynamically equivalent finite element models of aircraft structures from modal test data**
Karaağaçlı T., Yıldız E. N., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, cilt.31, ss.94-108, 2012 (SCI-Expanded)
- XXI. **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, cilt.61, sa.1, ss.339-342, 2012 (SCI-Expanded)
- XXII. **Parametric identification of structural nonlinearities from measured frequency response data**
Arslan O., Aykan M., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, cilt.25, sa.4, ss.1112-1125, 2011 (SCI-Expanded)
- XXIII. **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, cilt.50, sa.6, ss.585-589, 2010 (SCI-Expanded)
- XXIV. **Vibration measurements predict the mechanical properties of human tibia**
Bediz B., ÖZGÜVEN H. N., Korkusuz F.
CLINICAL BIOMECHANICS, cilt.25, sa.4, ss.365-371, 2010 (SCI-Expanded)
- XXV. **A method in model updating using Miscorrelation Index sensitivity**
Kozak M. T., Öztürk M., ÖZGÜVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, cilt.23, sa.6, ss.1747-1758, 2009 (SCI-Expanded)
- XXVI. **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, cilt.23, sa.1, ss.30-44, 2009 (SCI-Expanded)
- XXVII. **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, cilt.49, sa.1, ss.25-35, 2009 (SCI-Expanded)
- XXVIII. **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.
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- XXIX. **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.
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- XXX. **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, cilt.46, sa.15, ss.1901-1912, 2006 (SCI-Expanded)

- XXXI. **Nonlinear vibration analysis of bladed disks with dry friction dampers**
Cigeroglu E., Ozguven H. N.
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- XXXII. **A modeling approach for analysis and improvement of spindle-holder-tool assembly dynamics**
Budak E., Erturk A., Ozguven H. N.
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- XXXIII. **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, cilt.126, sa.3, ss.534-541, 2004 (SCI-Expanded)
- XXXIV. **A modal superposition method for non-linear structures**
Kuran B., Ozguven H. N.
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- XXXV. **DYNAMIC ANALYSIS OF GEARED SHAFT SYSTEMS BY USING A CONTINUOUS SYSTEM MODEL**
Şener Ö. S., ÖZGÜVEN H. N.
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- XXXVI. **FORCED HARMONIC RESPONSE ANALYSIS OF NONLINEAR STRUCTURES USING DESCRIBING FUNCTIONS**
TANRIKULU O., KURAN B., OZGUVEN H. N., IMREGUN M.
AIAA JOURNAL, cilt.31, sa.7, ss.1313-1320, 1993 (SCI-Expanded)
- XXXVII. **ITERATIVE RECEPTANCE METHOD FOR DETERMINING HARMONIC RESPONSE OF STRUCTURES WITH SYMMETRICAL NONLINEARITIES**
BUDAK E., OZGUVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, cilt.7, sa.1, ss.75-87, 1993 (SCI-Expanded)
- XXXVIII. **DYNAMIC ANALYSIS OF GEARED ROTORS BY FINITE-ELEMENTS**
KAHRAMAN A., OZGUVEN H. N., HOUSER D., ZAKRAJSEK J.
JOURNAL OF MECHANICAL DESIGN, cilt.114, sa.3, ss.507-514, 1992 (SCI-Expanded)
- XXXIX. **A NONLINEAR MATHEMATICAL-MODEL FOR DYNAMIC ANALYSIS OF SPUR GEARS INCLUDING SHAFT AND BEARING DYNAMICS**
OZGUVEN H. N.
JOURNAL OF SOUND AND VIBRATION, cilt.145, sa.2, ss.239-260, 1991 (SCI-Expanded)
- XL. **STRUCTURAL MODIFICATIONS USING FREQUENCY-RESPONSE FUNCTIONS**
OZGUVEN H. N.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, cilt.4, sa.1, ss.53-63, 1990 (SCI-Expanded)
- XLI. **DYNAMIC ANALYSIS OF HIGH-SPEED GEARS BY USING LOADED STATIC TRANSMISSION ERROR**
OZGUVEN H. N., HOUSER D.
JOURNAL OF SOUND AND VIBRATION, cilt.125, sa.1, ss.71-83, 1988 (SCI-Expanded)
- XLII. **MATHEMATICAL-MODELS USED IN GEAR DYNAMICS - A REVIEW**
OZGUVEN H. N., HOUSER D.
JOURNAL OF SOUND AND VIBRATION, cilt.121, sa.3, ss.383-411, 1988 (SCI-Expanded)
- XLIII. **AN EXPERIMENTAL AND ANALYTICAL STUDY OF IMPACT FORCES DURING HUMAN JUMPING**
OZGUVEN H. N., BERME N.
JOURNAL OF BIOMECHANICS, cilt.21, sa.12, ss.1061-1066, 1988 (SCI-Expanded)
- XLIV. **A NEW METHOD FOR HARMONIC RESPONSE OF NONPROPORTIONALLY DAMPED STRUCTURES USING UNDAMPED MODAL DATA**
OZGUVEN H. N.
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- XLV. **SUPPRESSING THE 1ST AND 2ND RESONANCES OF BEAMS BY DYNAMIC VIBRATION ABSORBERS**
OZGUVEN H. N., CANDIR B.
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- XLVI. **WHIRL SPEEDS AND UNBALANCE RESPONSE OF MULTIBEARING ROTORS USING FINITE-ELEMENTS**
OZGUVEN H. N., OZKAN Z.
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- XLVII. **ON THE CRITICAL SPEED OF CONTINUOUS SHAFT-DISK SYSTEMS**
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- XLVIII. **Receptances of non proportionally and continuously damped plates Reduced dampers method**
ÖZGÜVEN H. N.
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- XLIX. **Receptances of non proportionally and continuously damped plates equivalent dampers method**
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Diğer Dergilerde Yayınlanan Makaleler

- I. **Analytical Prediction of Part Dynamics for Machining Stability Analysis**
Alan S., Budak E., ÖZGÜVEN H. N.
International Journal of Automation Technology, cilt.4, sa.3, ss.259-267, 2010 (Scopus)

Kitap & Kitap Bölümleri

- I. **New FRF Based Methods for Substructure Decoupling**
Kalaycıoğlu T., ÖZGÜVEN H. N.
Dynamics of Coupled Structures, Volume 4, Matt Allen, Randall L. Mayes, Daniel Rixen , Editör, Springer, ss.463-472, 2016
- II. **Experimental Validation of Pseudo Receptance Difference (PRD) Method for Nonlinear Model Updating**
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **A Novel Approach for Local Structural Modification of Nonlinear Structures**
Ceren Ekinci E., Bülent Özer M. B., ÖZGÜVEN H. N.
41st IMAC, A Conference and Exposition on Structural Dynamics, 2023, Austin, Amerika Birleşik Devletleri, 13 - 16 Şubat 2023, ss.155-160
- II. **Extension and Experimental Verification of an Efficient Re-analysis Method for Modified Nonlinear Structures**
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Atıf (WoS): 2497

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TÜBİTAK

TÜRKİYE ÇİMENTO VE TOPRAK SANAYİİ

ÇİMENTO MÜSTAHSİLLERİ BİRLİĞİ