

Asst. Prof. AYDIN DEMİR

Personal Information

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International Researcher IDs

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Yoksis Researcher ID: 36136

Education Information

Doctorate, Istanbul Technical University, Makina, Makina Mühendisliği, Turkey 1998 - 2006

Postgraduate, Sivas Cumhuriyet University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey 1995 - 1997

Undergraduate, Istanbul Technical University, Makina, Makina Mühendisliği, Turkey 1987 - 1991

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Occupational Health and Safety, İşyeri Hekimliği ve İş Güvenliği Uzmanlığı Eğitici Belgesi, Çalışma ve Sosyal Güvenlik Bakanlığı, 2013

Dissertations

Doctorate, Radyal ve çembersel çatlaklı halka plaklarının serbest titreşimleri, Istanbul Technical University, Makina, Makina Mühendisliği, 2006

Postgraduate, Sanayide gürültü kontrolü ve modellemesi, Sivas Cumhuriyet University, Mühendislik Fakültesi, Makine Mühendisliği, 1997

Research Areas

Machine Dynamics, Mechanisms, Robotics, Mechanical Vibrations

Academic Titles / Tasks

Assistant Professor, Sivas Cumhuriyet University, Mühendislik Fakültesi, Makine Mühendisliği, 2009 - Continues

Research Assistant PhD, Sivas Cumhuriyet University, Mühendislik Fakültesi, Makine Mühendisliği, 2006 - 2009

Research Assistant, Istanbul Technical University, Fen Bilimleri Enstitüsü, 1999 - 2006

Research Assistant, Sivas Cumhuriyet University, Mühendislik Fakültesi, Makine Mühendisliği, 1994 - 1999

Academic and Administrative Experience

Deputy Head of Department, Sivas Cumhuriyet University, Mühendislik Fakültesi, Makine Mühendisliği, 2009 - 2012

Courses

Optimization Methods, Postgraduate, 2019 - 2020
Dynamics, Undergraduate, 2019 - 2020
Dinamik - II, Undergraduate, 2018 - 2019
Makine Dinamiği, Undergraduate, 2018 - 2019
Applications of Machine Theory, Postgraduate, 2018 - 2019, 2017 - 2018
Mukavemet, Undergraduate, 2018 - 2019
Dinamik, Undergraduate, 2019 - 2020
Analytical Dynamics Analysis, Postgraduate, 2019 - 2020
Makine Dinamiği, Undergraduate, 2018 - 2019
Mechanical Vibrations, Undergraduate, 2019 - 2020
Mekanik Titreşimler, Undergraduate, 2019 - 2020
Mukavemet - II, Undergraduate, 2018 - 2019
Sürekli Sistemler Teorisi, Postgraduate, 2018 - 2019
Uzmanlık Alan Dersi, Postgraduate, 2019 - 2020
Theory of Continuous Systems, Postgraduate, 2018 - 2019, 2017 - 2018
Strength of Materials, Undergraduate, 2018 - 2019, 2017 - 2018
Dynamics 2, Undergraduate, 2018 - 2019
Dinamik - II, Undergraduate, 2018 - 2019
Optimizasyon Yöntemleri, Postgraduate, 2019 - 2020
Analitik Dinamik Analiz, Postgraduate, 2019 - 2020
Dynamics of Machinery, Undergraduate, 2018 - 2019
Makine Teorisi Uygulamaları, Postgraduate, 2018 - 2019
Seminer Dersi, Postgraduate, 2019 - 2020
Dinamik, Undergraduate, 2019 - 2020
Dinamik - I, Undergraduate, 2019 - 2020
Mukavemet - I, Undergraduate, 2018 - 2019
Dynamics 1, Undergraduate, 2019 - 2020
Dinamik - I, Undergraduate, 2019 - 2020
Mak.Muh.Uyg.(Bitirme Pr.), Undergraduate, 2019 - 2020
Mekanik Titreşimler, Undergraduate, 2019 - 2020
Makina Lab. - II, Undergraduate, 2017 - 2018
Makina Lab. - I, Undergraduate, 2018 - 2019
Mukavemet - II, Undergraduate, 2017 - 2018
Mukavemet, Undergraduate, 2017 - 2018
Makine Dinamiği, Undergraduate, 2016 - 2017
Statik, Undergraduate, 2016 - 2017
Makine Dinamiği, Undergraduate, 2014 - 2015
Makine Dinamiği, Undergraduate, 2014 - 2015
Makine Dinamiği, Undergraduate, 2013 - 2014
Dinamik, Undergraduate, 2013 - 2014
Makina Lab. - I, Undergraduate, 2012 - 2013
Sayısal Analiz, Undergraduate, 2010 - 2011
Sayısal Analiz, Undergraduate, 2010 - 2011
Numerical Analysis, Undergraduate, 2010 - 2011

Advising Theses

Demir A., Dynamic Analysis And Performance Investigations of 2R Robot Arm Under Cyclic Loading , Postgraduate, Ö.YÜCEL(Student), 2016

Demir A., Analysis and modeling of compressor vibrations, Postgraduate, M.AKİF(Student), 2015

Demir A., Dynamic Vibration Absorber Applications At 2R Robot Arm Running Under The Harmonic Load, Postgraduate, E.BAHÇECİ(Student), 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Free vibration behaviour and some mechanical properties of micro particle reinforced epoxy composites**
Ürer M., DEMİR A.
International Polymer Processing, vol.38, no.5, pp.606-614, 2023 (SCI-Expanded)
- II. **Natural frequencies of annular plates with circumferential cracks by means of sector element**
Demir A., Mermertaş V.
ENGINEERING FRACTURE MECHANICS, vol.75, no.5, pp.1143-1155, 2008 (SCI-Expanded)
- III. **A study on annular plates with radial through cracks by means of sector type element**
Demir A., Mermertas V.
JOURNAL OF SOUND AND VIBRATION, vol.300, pp.466-478, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **On the earthquake-related damages of civil engineering structures within the areas impacted by Kahramanmaraş earthquakes**
ATMACA B., Arslan M. E., EMİROĞLU M., ALTUNIŞIK A. C., ADANUR S., DEMİR A., GÜNAYDIN M., TOPLU E., TATAR T., KAHYA V., et al.
Journal of Structural Engineering & Applied Mechanics (Online), vol.6, no.2, pp.98-116, 2023 (Peer-Reviewed Journal)
- II. **The fundamental frequencies of longitudinally vibrating rods carrying tip mass and transversally vibrating beams carrying tip mass by using several methods**
Demir A.
CUMHURİYET SCIENCE JOURNAL, vol.42, no.1, pp.209-217, 2021 (Peer-Reviewed Journal)
- III. **Free Vibrations in Radial and Circular Cracked Annular Plate**
Demir A., Mermertaş V.
İTÜ Dergisi/d, Mühendislik, vol.5, no.3, pp.231-242, 2006 (Peer-Reviewed Journal)
- IV. **Mechanical Origin Errors Caused by Manufacturing Tolerances**
Demir A.
Endüstri & Otomasyon Dergisi, no.99, pp.18-20, 2005 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Tansör Hesaba Giriş ve Uygulamaları**
KOSER K., ASLAN Z., GÜLYAZ ÖZYURT S., DEMİR A., KIRATLI S.
Nobel Yayınevi, 2013

Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of Viscoelastic Damping Element for Clamped Rod**
Mermertaş V., Demir A.
6. Ulusal Akustik Kongresi, Antalya, Turkey, 26 - 28 October 2002, pp.138-144
- II. **Effect of Cracks on Modal Properties of Clamped Beam**
Demir A.
13. Ulusal Makina Teorisi Sempozyumu, Sivas, Turkey, 7 - 09 June 2007, pp.127-134
- III. **Free Vibration Analysis of Circular Cracked Annular Plate**
Demir A., Mermertaş V.
7. Uluslararası Kırılma Konferansı, Kocaeli, Turkey, 19 - 21 October 2005, pp.139-152
- IV. **Free Vibration Analysis of Radial Cracked Annular Plate**
Demir A., Mermertaş V.
7. Uluslararası Kırılma Konferansı, Kocaeli, Turkey, 19 - 21 October 2005, pp.125-138
- V. **Modal Properties of Viscoelastic Linked Clamped Rod**
Demir A., Mermertaş V.
11. Ulusal Makina Teorisi Sempozyumu, Ankara, Turkey, 4 - 06 September 2003, pp.137-141
- VI. **Natural Frequencies of Cracked Rectangular Plates**
Demir A., Mermertaş V.
11. Ulusal Makina Teorisi Sempozyumu, Ankara, Turkey, 4 - 06 September 2003, pp.143-148
- VII. **Effect of Manufacturing Defects on Movement**
Demir A., Mermertaş V.
6. Uluslararası Mekatronik Tasarım ve Modelleme Kongresi, Nevşehir, Turkey, 4 - 06 September 2002, pp.13-22
- VIII. **Free and Forced Vibrations in Cracked Clamped Beams**
Demir A., Mermertaş V.
10. Ulusal Makina Teorisi Sempozyumu, Konya, Turkey, 12 - 14 September 2001, pp.635-644
- IX. **The Effect of Mechanical Error on RSSR Mechanism**
Mermertaş V., Demir A.
10. Ulusal Makina Teorisi Sempozyumu, Konya, Turkey, 12 - 14 September 2001, pp.758-766

Other Publications

- I. **Formation of Sound and Noise**
Demir A., Ertaş H. A.
Other, pp.25-28, 1999

Metrics

Publication: 19
Citation (WoS): 19
Citation (Scopus): 20
H-Index (WoS): 2
H-Index (Scopus): 2

Non Academic Experience

C.Ü. MÜH. FAK.
C.Ü. MÜH. FAK.
İ.T.Ü. FEN BİL. ENST.
C.Ü. MÜH. FAK.