

Asst. Prof. AYDIN DEMİR

Personal Information

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Education Information

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

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

Under Graduate, 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, Tıp Fakültesi Araştırma Mrk, 2006

Post Graduate, 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

Professional Experience

Courses

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

Advising Theses

- Demir A., Dynamic Analysis And Performance Investigations of 2R Robot Arm Under Cyclic Loading , Post Graduate, Ö.YÜCEL(Student), 2016
- Demir A., Analysis and modeling of compressor vibrations, Post Graduate, M.AKİF(Student), 2015
- Demir A., Dynamic Vibration Absorber Applications At 2R Robot Arm Running Under The Harmonic Load, Post Graduate, E.BAHÇECİ(Student), 2013

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

- I. **Natural frequencies of annular plates with circumferential cracks by means of sector element**
Demir A., Mermertaş V.
ENGINEERING FRACTURE MECHANICS, vol.75, pp.1143-1155, 2008 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Free Vibrations in Radial and Circular Cracked Annular Plate**
Demir A., Mermertaş V.
İTÜ Dergisi/d, Mühendislik, vol.5, no.2, pp.231-242, 2006 (International Refereed University Journal)
- II. **Mechanical Origin Errors Caused by Manufacturing Tolerances**
Demir A.
Endüstri & Otomasyon Dergisi, pp.18-20, 2005 (Other Refereed National Journals)

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

Citations

Total Citations (WOS):18

h-index (WOS):2