

Assoc. Prof. Tarık KOÇAL

Personal Information

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Education Information

Doctorate, Yıldız Teknik Üniversitesi, Makina Fakültesi, Makine Müh., Turkey 2012 - 2016

Postgraduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Mekatronik Mühendisliği Bölümü, Turkey 2010 - 2012

Undergraduate, Yıldız Teknik Üniversitesi, Makina Fakültesi, Makine Mühendisliği, Turkey 2006 - 2009

Research Areas

Mechanical Engineering, Machine Theory and Dynamics, Machine Dynamics, System Dynamics and Control, Mechatronics, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2018 - Continues

Assistant Professor, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2017 - 2018

Research Assistant PhD, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2016 - 2017

Research Assistant, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2010 - 2016

Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2019 - 2020

Deputy Head of Department, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2017 - 2019

Courses

Basic Computer Science, Undergraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021

Engineering Mathematics, Postgraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021

Mühendislik Mekaniği, Undergraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021

Computer Aided Technical Drawing, Undergraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021

Advising Theses

Koçal T., Haydarpaşa liman bölgesindeki gemi kaynaklı emisyonların incelenmesi ve hava kalitesi ölçüm sonuçlarının değerlendirilmesi, Postgraduate, M.AVCI(Student), 2020

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

- I. **The dynamical behavior of the moving viscoelastic plate in contact with viscous fluid with finite depth under action of time-harmonic forces**
KOÇAL T.
OCEAN ENGINEERING, vol.215, 2020 (Journal Indexed in SCI)
- II. **The influence of the rheological parameters on the dispersion of the flexural waves in a viscoelastic bi-layered hollow cylinder**
Kocal T., AKBAROV S.
STRUCTURAL ENGINEERING AND MECHANICS, vol.71, no.5, pp.577-601, 2019 (Journal Indexed in SCI)
- III. **The Influence of the Viscoelasticity on the Axisymmetric Wave Attenuation in a bi-Material Solid Cylinder**
KOÇAL T., AKBAROV S.
ACTA PHYSICA POLONICA A, vol.134, no.1, pp.135-138, 2018 (Journal Indexed in SCI)
- IV. **On the attenuation of the axisymmetric longitudinal waves propagating in the bi-layered hollow cylinder made of viscoelastic materials**
Kocal T., AKBAROV S.
STRUCTURAL ENGINEERING AND MECHANICS, vol.61, no.1, pp.143-160, 2017 (Journal Indexed in SCI)
- V. **On the dispersion of the axisymmetric longitudinal wave propagating in a bi-layered hollow cylinder made of viscoelastic materials**
AKBAROV S., Kocal T., KEPCELER T.
INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, vol.100, pp.195-210, 2016 (Journal Indexed in SCI)
- VI. **Dispersion of Axisymmetric Longitudinal Waves in A Bi-Material Compound Solid Cylinder Made of Viscoelastic Materials**
AKBAROV S., Kocal T., KEPCELER T.
CMC-COMPUTERS MATERIALS & CONTINUA, vol.51, no.2, pp.105-143, 2016 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Examination of the Operating Costs and Environmental Impact of Alternative Fuels Used in Ships**
Koçal T.
Journal of Transportation and Logistics, vol.5, no.2, pp.1-9, 2020 (Refereed Journals of Other Institutions)
- II. **Polimer-Viskoelastik Malzemeli Boru Hatlarındaki Eğilme Dalgalarının Dispersiyonu**
Koçal T.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.21, no.62, pp.577-586, 2019 (National Refreed University Journal)
- III. **Gemi İçindeki Nem ve Sıcaklık Değişiminin PID ile Kontrolü**
Koçal T., Muğan A.
GMO Journal of Ship and Marine Technology, no.209, pp.46-56, 2017 (Other Refereed National Journals)
- IV. **Dispersion of Axisymmetric Longitudinal Waves in a Solid Cylinder Made of Viscoelastic Material**
Akbarov S., Koçal T., Kepceler T.
International Journal of Advances in Science, Engineering and Technology, vol.4, no.2, pp.70-75, 2016 (Refereed Journals of Other Institutions)
- V. **MULTI ZONES HVAC SYSTEMS' CONTROL IN SHIPS WITH SIMULINK APPLICATION**
KOÇAL T., MUĞAN A., YURTSEVEN A.
JOURNAL OF MARITIME TRANSPORT AND ENGINEERING, vol.2, no.1, pp.13-20, 2013 (Refereed Journals of Other

Institutions)

VI. WELDING TECHNOLOGIES IN SHIPBUILDING INDUSTRY

Turan E., Koçal T., Ünlügençoğlu K.

TOJSAT : The Online Journal of Science and Technology , vol.1, no.4, pp.24-30, 2011 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Design of River Mouth Floating Trash Trap Systems for Istanbul Golden Horn Area**
Çevik H., KOÇAL T.
II International Ankara Conference of Scientific Research, 6 - 08 March 2020, pp.287-288
- II. **Investment Analysis Investigation of Solar Power Plant in Nevşehir Hamzalı District**
Koçal T.
International Congress of Academic Research, Bolu, Turkey, 17 - 19 February 2020, pp.139-140
- III. **Estimation of Shipping Emissions; a case study for the Region of Haydarpaşa Port in Istanbul**
Avcı M., Koçal T., Ünlügençoğlu K.
4th International Energy & Engineering Congress, Gaziantep, Turkey, 24 - 25 October 2019, pp.1101-1102
- IV. **Applying Fuzzy Analytic Hierarchy Process Approach for a Ship Type Selection**
DEMİREL H., KOÇAL T., BALİN A.
I. Uluslararası GAP Matematik - Mühendislik Fen ve Sağlık Bilimleri Kongresi, Şanlıurfa, Turkey, 4 - 07 October 2018, pp.327-334
- V. **The influence of the viscoelasticity on the axisymmetric wave attenuation in a bi-material solid cylinder**
Koçal T., Akbarov S., Aydın Z.
7th International Advances in Applied Physics and Materials Science Congress, Muğla, Turkey, 22 - 26 April 2017, pp.69
- VI. **DISPERSION OF AXISYMMETRIC LONGITUDINAL WAVES IN A SOLID CYLINDER MADE OF VISCOELASTIC MATERIAL**
Akbarov S., Kocal T., Kepceler T.
61st The IIER International Conference, Osaka, Japan, 16th February 2016, Osaka, Japan, 01 February 2016, pp.24-29
- VII. **Viskoelastik Malzemeden Yapılmış İki Katlı İçi Boş Dairesel Silindirde Eksenel Simetrik Boyuna Dalgaların Dispersiyonu**
Akbarov S., Koçal T., Kepceler T.
XIX. Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 - 28 August 2015, vol.1, pp.1-12
- VIII. **Torsional Wave Propagation in a Bi-Layered Hollow Cylinder Made of Viscoelastic Material**
AKBAROV S., KEPCELER T., KOÇAL T.
XVIII International Conference on Mechanics of Composite Materials, Riga, Latvia, 2 - 06 June 2014, pp.22
- IX. **Multi Zones HVAC Systems' Control in Ships with Simulink Application**
KOÇAL T., MUGAN A., YURTSEVEN A.
15th International Conference Maritime Transport and Infrastructure, Riga, Latvia, 25 - 26 April 2013, pp.35
- X. **Alternative Automation Technologies To Reduce Waste And Pollutants Of Processes In Shipyards**
Çelebi U. B. , Yıldız B., Koçal T., Turan E.
ISTEC 2010, Gazimagusa, Cyprus (Kkct), 27 - 29 October 2010, pp.77-81
- XI. **Welding Technologies in Shipbuilding Industry**
Turan E., Koçal T., Ünlügençoğlu K.
International Science and Technology Conference (ISTEC 2010), Famagusta, Turkish Republic of Northern Cyprus, October 27-29, 2010, Gazimagusa, Cyprus (Kkct), 27 - 29 October 2010, pp.875-881
- XII. **Yıldız Technical University Marine Engineering Operations Department and Its Position in Maritime Education of Turkey**

Ünlügençođlu K., Yıldız B., Koçal T.

International Conference on New Horizons in Education-2010 (INTE 2010), Famagusta, Turkish Republic of Northern Cyprus, June 23-25, 2010, Gazimagusa, Cyprus (Kkct), 23 - 25 June 2010, pp.950-956

XIII. Mechatronics Engineering Education and Its Importance of Turkey

Koçal T., Yıldız B., Ünlügençođlu K.

International Conference on New Horizons in Education-2010 (INTE 2010), Famagusta, Turkish Republic of Northern Cyprus, June 23-25, 2010, Gazimagusa, Cyprus (Kkct), 23 - 25 June 2010, pp.532-536

Scientific Refereeing

Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, National Scientific Refreed Journal, October 2018

Structural Engineering and Mechanics, An International Journal, SCI Journal, June 2018

Citations

Total Citations (WOS):17

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