Prof. YAŞAR PALA

Personal Information

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Education Information

Doctorate, Bursa Uludağ University, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 1987 - 1991 Undergraduate, Bursa Uludağ University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği Bölümü, Turkey 1982 - 1986

Foreign Languages

Arabic, B1 Intermediate English, C1 Advanced

Certificates, Courses and Trainings

Foreign Language, ELTC ENGLISH EDUCATION CENTRE, UMIST, UNIVERSITY OF MANCHESTER, 1986

Dissertations

Postgraduate, Mekanizmaların analizine eğrisel tensör yaklaşımı, Bursa Uludağ University, Mühendislik Fakültesi, Makina Mühendisliği, 1988

Research Areas

Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Bursa Uludağ University, Mühendislik Fakültesi, Makina Mühendisliği, 1987 - Continues

Academic and Administrative Experience

Courses

ELASTISITENIN MATEMATIKSEL TEORISI, Postgraduate, 2024 - 2025

Dinamik, Undergraduate, 2021 - 2022

KLASİK TEORİK MEKANİK V UYG., Postgraduate, 2015 - 2016

MUKAVEMET II, Undergraduate, 2014 - 2015

Mukavemet, Undergraduate, 2012 - 2013

KISMİ DİFERENSİYEL DENKLEMLER VE UYG., Postgraduate, 2001 - 2002

İLERİ MÜHENDİSLİK MATEMATİĞİ, Postgraduate, 1996 - 1997

Engineering Mechanics, Undergraduate, 1995 - 1996

Tensör analizi ve uygulamaları, Doctorate, 1993 - 1994

STATİK, Undergraduate, 1992 - 1993

MUKAVEMET II, Undergraduate, 1992 - 1993

Plastisite Teorisi, Undergraduate, 1991 - 1992

Advising Theses

PALA Y., Development of a flexible algorithm for the optimum design of trunk lid hinges, Postgraduate, Ş.Özcan(Student), 2017

PALA Y., Investigation and optimization of buckling behavior of uprights and frames used in steel storage rack systems, Postgraduate, S.Şenaysoy(Student), 2017

PALA Y., Riccati equation, a new analytical method for solving Riccati equation and engineering applications,

Postgraduate, M.Özgür (Student), 2017

 $PALA\ Y.,\ Improving\ the\ buckling\ behaviour\ of\ columns\ used\ in\ steel\ rack\ systems,\ Postgraduate,\ \zeta. Kahya(Student),\ 2016$

PALA Y., Investigation of temperature distribution and thermal stresses by a stationary or moving heat source in two dimensional plates, Postgraduate, M.Çavuş(Student), 2011

PALA Y., Dynamic response of slightly curved and supported beams under moving loads, Doctorate, M.Reis(Student), 2009

PALA Y., Analytical approach to wave and stress analysis of bars made of non linear material with finite length, Postgraduate, Ö.Bademci(Student), 2006

PALA Y., The effect of fluid motion in external fuel tanks on vehicle dynamics, Postgraduate, M.Reis (Student), 2004

PALA Y., Analytical solutions of the direct dynamic problem, Postgraduate, G.Sevilgen(Student), 2003

PALA Y., Inclusion problem in axially loaded plates with a hole, Postgraduate, G.Ak(Student), 2003

PALA Y., Stress distribution in a toroidal ring sector subjected to bending and twisting, Doctorate, Ş.Tursunov(Student), 1999

PALA Y., Design and analysis of mechanical holders, Postgraduate, Ş.Tursunov(Student), 1995

Jury Memberships

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Bursa Uludağ Üniversitesi, June, 2023

Published journal articles indexed by SCI, SSCI, and AHCI

I. New Method For Analytical Solution of Second Order Ordinary Differential Equations With Variable Coefficients

PALA Y., KAHYA Ç.

JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.15, no.3, pp.757-774, 2022 (SCI-Expanded)

II. A Method Based on Riccati Equation for the Vibration Analysis of Rods with Variable Cross-Sections PALA Y., KAHYA Ç.

INTERNATIONAL JOURNAL OF STRUCTURAL STABILITY AND DYNAMICS, vol.22, no.11, 2022 (SCI-Expanded)

III. Damped vibration analysis of cracked Timoshenko beams with restrained end conditions PALA Y., BEYÇİMEN S., KAHYA Ç.

JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.42, no.9, 2020 (SCI-Expanded)

IV. Torsion of circular open cross-section with corrugated inner and outer surface PALA Y., Pala A.

STRUCTURAL ENGINEERING AND MECHANICS, vol.73, no.1, pp.75-82, 2020 (SCI-Expanded)

V. Dynamic Response of a Cracked Beam under a Moving Mass Load PALA Y., REİS M.

JOURNAL OF ENGINEERING MECHANICS, vol.139, no.9, pp.1229-1238, 2013 (SCI-Expanded)

VI. VIBRATION OF A CRACKED CANTILEVER BEAM UNDER MOVING MASS LOAD REIS M., PALA Y.

JOURNAL OF CIVIL ENGINEERING AND MANAGEMENT, vol.18, no.1, pp.106-113, 2012 (SCI-Expanded)

VII. Dynamic response of a beam supported with damper under moving load REİS M., PALA Y.

STRUCTURAL ENGINEERING AND MECHANICS, vol.31, no.4, pp.477-480, 2009 (SCI-Expanded)

VIII. DYNAMIC RESPONSE OF A SLIGHTLY CURVED BRIDGES UNDER MOVING MASS LOADS REIS M., PALA Y.

BALTIC JOURNAL OF ROAD AND BRIDGE ENGINEERING, vol.4, no.3, pp.143-148, 2009 (SCI-Expanded)

IX. Dynamic analysis of a bridge supported with many vertical supports under moving load REIS M., PALA Y., Karadere G.

BALTIC JOURNAL OF ROAD AND BRIDGE ENGINEERING, vol.3, no.1, pp.14-20, 2008 (SCI-Expanded)

X. Analytical solution of direct dynamics problem in cylindrical coordinates Pala Y., Guney I., Karadere G.

JOURNAL OF ENGINEERING MECHANICS-ASCE, vol.130, no.9, pp.1115-1117, 2004 (SCI-Expanded)

XI. Generalized method of separation of variables on the nonlinear elastic-plastic wave motion Pala Y.

NONLINEAR DYNAMICS, vol.14, no.1, pp.49-56, 1997 (SCI-Expanded)

XII. Torsion of nonlinear viscous shafts

Pala Y.

JOURNAL OF ENGINEERING MECHANICS-ASCE, vol.123, no.4, pp.338-341, 1997 (SCI-Expanded)

Articles Published in Other Journals

I. Free vibration analysis of elastically restrained cantilever Timoshenko beam with attachments PALA Y., KAHYA C.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.29, no.3, pp.274-280, 2023 (ESCI)

II. Free vibration analysis of mixed supported beam

PALA Y., BEYÇİMEN S.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.26, no.1, pp.1-8, 2020 (ESCI)

III. A New Analytical Method for Solving General Riccati Equation PALA Y., Ertaş Ö.

Universal Journal of Applied Mathematics, vol.5, no.2, pp.11-16, 2017 (Peer-Reviewed Journal)

IV. AN INVESTIGATION OF THE BREAKING DYNAMICS OF A VEHICLE WHICH CARRIES LIQUID CARGO REIS M., PALA Y.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, no.3, pp.303-312, 2006 (ESCI)

V. NON-LINEAR ELASTIC WAVES IN A FINITE BAR MADE OF A MATERIAL HAVING NON-LINEAR STRESS-STRAIN RELATION

PALA Y., Bademci O., KARADERE G.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, no.1, pp.79-86, 2006 (ESCI)

VI. Akışkan kargo taşıyan aracın fren dinamiğinin incelenmesi

REİS M., PALA Y.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.12, no.3, pp.303-312, 2006 (Peer-Reviewed Journal)

VII. ON THE ELASTIC-PLASTIC TORSION OF A BAR MADE OF WORK HARDENING MATERIAL

PALA Y.

PAMUKKALE J O U R N A L O F E N G I N E E R I N G S C I E N C E S, vol.1, no.1, pp.65-68, 1995 (Peer-Reviewed Journal)

VIII. Analytical solution of Hill's equation

PALA Y.

Journal of Applied Mechanics, Transactions ASME, vol.61, no.4, pp.1000-1001, 1994 (Scopus)

Books & Book Chapters

I. Modern Diferansiyel Denklemler

PALA Y.

Nobel yayıncılık, Ankara, 2022

II. İleri Mühendislik Matematiği

PALA Y

Nobel yayıncılık, Ankara, 2022

III. Titreşim Ölçümü ve Uygulamaları

PALA Y., REİS M.

in: Mekanik Titreşimler Cilt 2, Yaşar Pala, Editor, Nobel Akademik Yayıncılık, pp.870-938, 2017

IV. MUKAVEMET / Strength Of Materials / Schaum'xxs

PALA Y.

Nobel Yayıncılık, Ankara, 2014

V. ileri mühendislik matematiği

PALA Y.

Nobel yayıncılık, Ankara, 2013

VI. modern uygulamalı diferensiyel denklemler çözümlü problemler

PALA Y.

Nobel Akademik yayıncılık, Ankara, 2011

VII. kısmi diferensiyel denklemler

PALA Y.

U.Üniv yayınları, Bursa, 2000

VIII. TENSÖR ANALİZİ VE UYGULAMALARI

PALA Y.

Uludağ Üniversitesi, Güçlendirme Vakfı yayınları, Bursa, 1993

Refereed Congress / Symposium Publications in Proceedings

I. ÇELİK DEPO RAF SİSTEMLERİNDE KULLANILAN YATAY TAŞIYICIYA OTURAN TAVA RAFLARIN KAPASİTELERİNİN ANALİTİK VE SONLU ELEMANLAR YÖNTEMİYLE BELİRLENMESİ

PALA Y., ŞENAYSOY S., ÇALIŞ E.

XX. Ulusal Mekanik Kongresi, Turkey, 5 - 09 September 2017

II. Doğrudan Dayanım Yöntemiyle Çelik Depo Raf Sistemlerinde Kullanılan Soğuk Şekillendirilmiş Çelik Dikmelerin Burkulma Yüklerinin Bulunması

PALA Y., ŞENAYSOY S.

7. Çelik Yapılar Sempozyumu, Turkey, 26 - 28 October 2017

III. Analytical Investigation of the Stress Distribution in the Beam end Connector in Storage Rack Systems

PALA Y., REİS M.

ıNTERNATIONAL CONFERENCE, SCOPIA, Macedonia, 15 - 19 May 2016

IV. Çelik Depo Raf Sistemlerinde Kullanılan Kulak Bağlantılarında Kaynak Hesabı Ve Optimizasyonu PALA Y., ÇALIŞ E., ÖCAL A., ŞENAYSOY S.

6. ÇELİK YAPILAR SEMPOZYUMU, Eskişehir, Turkey, 9 - 11 December 2015

V. THE EFFECTS OF CENTRIPETAL AND CORIOLIS FORCES ON THE DYNAMIC RESPONSE OF A CRACKED BEAM UNDER A MOVING MASS LOAD

PALA Y., REİS M.

13th International Conference on Applied Mechanics and Mechanical Engineering., Cairo, Egypt, 27 - 29 May 2008

VI. Analytical solution of Hill's nonlinear partial differential equation for plastically deforming beams subjected to bending and torsion together and stress fields

PALA Y.

Proceedings of the 2nd Biennial European Joint Conference on Engineering Systems Design and Analysis. Part 1 (of 8), London, Canada, 4 - 07 July 1994, vol.64, pp.351-360

VII. Permanent deformation analysis of an L-shaped cantilever structure subjected to dynamic loading PALA Y.

Proceedings of the 16th Annual Energy - Sources Technology Conference and Exhibition, Houston, TX, USA, 31 January - 04 February 1993, vol.52, pp.255-262

VIII. Determination of trajectory in a 5R-1P manipulator using regular space curves KOPMAZ O., Ozcan R., PALA Y.

Proceedings of the 1992 Engineering Systems Design and Analysis Conference, İstanbul, Turkey, 29 June - 03 July 1992, vol.47, pp.173-179

Metrics

Publication: 40 Citation (WoS): 40 Citation (Scopus): 69 H-Index (WoS): 4 H-Index (Scopus): 5

Non Academic Experience

University, ULUDAĞ ÜNİVERSİŞTESİ, MÜHENDİSLİK FAKÜLTESİ, MAKİNE BÖLÜMÜ University, Virginia State University, Blacksburg, USA, ENGINEERING MECHANICS University, UMIST, University of Manchester, APPLIED MECHANICS