Prof. MEHMET ZÜLFÜ AŞIK

Personal Information

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International Researcher IDs
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Education Information

Doctorate, Texas Tech University, faculty of engineering, civil and environmental enginerring, United States Of America
1989 - 1993
Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1982 -
1985
Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1977 -
1982

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Vertical Vibration Analysis of Rigid Footings on a Soil Layer with a Rigid Base,, Texas Tech University, 1993
Postgraduate, Dynamic Analysis of Framed Off-Shore Structures, Middle East Technical University, Faculty of
Engineering, Department of Civil Engineering, 1985

Research Areas

Health Sciences, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, 2007 -
Continues
Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, 1999
- 2007
Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Engineering Sciences, 1994
- 1999

Academic and Administrative Experience

Head of Department, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biomedical Engineering, 2009 - 2011

Courses

Finite Element Method, Postgraduate, 2020 - 2021
energy methods in engineering, Doctorate, 2020 - 2021

Advising Theses

AŞIK M. Z., The Nonlinear Analysis of a Laminated Glass Plate with the Free Edge Boundary Conditions using the FDM, Postgraduate, D.CAN(Student), 2022
AŞIK M. Z., Tsunami maximum runup and focusing through earthquake source parameters, Doctorate, N.SHARGHI(Student), 2022
AŞIK M. Z., Three layer mathematical modelling of an elastic artery without and with aneurysm to predict the behavior, Postgraduate, H.JODATI(Student), 2015
AŞIK M. Z., Experimental analysis of curved laminated beam, Postgraduate, T.Uzhan(Student), 2010
AŞIK M. Z., Modeling of seismically excited structures using neural networks., Postgraduate, A.ERSİN(Student), 1998

Published journal articles indexed by SCI, SSCI, and AHCI

I. **The modified Vlasov model on a nonhomogeneous and nonlinear soil layer**
    Isbuga V., Cerezci M., Aşık M. Z.
    Computers and Geotechnics, vol.149, 2022 (SCI-Expanded)

II. **A mathematical model for the behavior of laminated uniformly curved glass beams**
    AŞIK M. Z., DURAL E., YETMEZ M., Uzhan T.
    COMPOSITES PART B-ENGINEERING, vol.58, pp.593-604, 2014 (SCI-Expanded)

III. **ASSESSMENT OF RPIM SHAPE PARAMETERS FOR SOLUTION ACCURACY OF 2D GEOMETRICALLY NONLINEAR PROBLEMS**
    BOZKURT Ö. Y., KANBER B., AŞIK M. Z.
    INTERNATIONAL JOURNAL OF COMPUTATIONAL METHODS, vol.10, no.3, 2013 (SCI-Expanded)

IV. **Effect of support conditions on the vibration of laminated composite beams**
    Asik M. Z., Dural E.
    JOURNAL OF VIBRATION AND CONTROL, vol.13, pp.1361-1368, 2007 (SCI-Expanded)

V. **Non-linear response of a layered medium**
    Asik M. Z., Isbuga V.
    JOURNAL OF VIBRATION AND CONTROL, vol.13, pp.1313-1320, 2007 (SCI-Expanded)

VI. **Laminated glass beams: Strength factor and temperature effect**
    Asik M., Tezcan S.
    COMPUTERS & STRUCTURES, vol.84, pp.364-373, 2006 (SCI-Expanded)

VII. **A mathematical model for the behavior of laminated glass beams**
    Asik M., Tezcan S.
    COMPUTERS & STRUCTURES, vol.83, pp.1742-1753, 2005 (SCI-Expanded)

VIII. **Behaviour of laminated circular glass plates**
    Aşık M. Z.
    Anziam Journal, no.45, pp.338-349, 2004 (SCI-Expanded)

IX. **Laminated glass plates: revealing of nonlinear behavior**
Asik M.
COMPUTERS & STRUCTURES, vol.81, pp.2659-2671, 2003 (SCI-Expanded)

X. **A simplified model for the analysis of machine foundations on a nonsaturated, elastic and linear soil layer**
Asik M., Vallabhan C.
COMPUTERS & STRUCTURES, vol.79, no.31, pp.2717-2726, 2001 (SCI-Expanded)

XI. **Dynamic response analysis of the machine foundations on a nonhomogeneous soil layer**
Asik M.
COMPUTERS AND GEOTECHNICS, vol.24, no.2, pp.141-153, 1999 (SCI-Expanded)

XII. **On the convergence of nonlinear plate solutions**
Asik M., Vallabhan C.
COMPUTERS & STRUCTURES, vol.65, no.2, pp.225-229, 1997 (SCI-Expanded)

XIII. **Analysis of structural glazing systems**
Vallabhan C., Asik M., Kandil K.
COMPUTERS & STRUCTURES, vol.65, no.2, pp.231-239, 1997 (SCI-Expanded)

XIV. **ANALYSIS OF LAMINATED GLASS UNITS**
VALLABHAN C., DAS Y., MAGDI M., ASIK M. Z., BAILEY J.
JOURNAL OF STRUCTURAL ENGINEERING-ASCE, vol.119, no.5, pp.1572-1585, 1993 (SCI-Expanded)

Articles Published in Other Journals

I. **Sıcaklığın Lamine Cam Plakların Davranışı Üzerine Etkisi**
Aşık M. Z.
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.13, no.2, pp.457-466, 2017 (Peer-Reviewed Journal)

II. **Effect of Delamination on the Strength of Laminated Glass Plate Structures**
AŞIK M. Z., DURAL E.
Applied Mechanics and Materials, 2014 (Peer-Reviewed Journal)

III. **Comparison of stress distribution around vertical and angled implants with finite element analysis**
CANAY R. Ş., HERSEK N. E., AKPINAR İ., AŞIK M. Z.
Journal of Practical Dentistry: Quintessence International, 1996 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Finite Element Method for Engineers: From Theory to Practice**
Aşık M. Z.
Alpha Science International Ltd. Oxford U.K, Oxford, 2011

Refereed Congress / Symposium Publications in Proceedings

I. **Mathematical Modeling for the analysis of Laminated Glass Plates with Simple Free Boundary Conditions**
AŞIK M. Z.
Shanghai International Conference on"Engineering & Technology, Computer , Basic & Applied Sciences, 21 - 22 December 2015

II. **Effect of Delamination on the Strength of Laminated Glass Plate Structures**
AŞIK M. Z., DURAL E.
International Conference on Mechanical Structures and Smart Materials (ICMSSM 2013), Xiamen, China, 16 - 17

November 2013, vol.487, pp.181-182

III. **3-D model for the analysis of rectangular machine foundations on a soil layer**
Asik M.
6th International Symposium on Numerical Models in Geomechanics (NUMOG VI), Montreal, Canada, 2 - 04 July 1997, pp.549-554

IV. **ANALYSIS OF LAMINATED GLASS UNITS**
VALLABHAN C., DAS Y., MAGDI M., ASIK M. Z., BAILEY J.
ASIAN PACIFIC CONF ON COMPUTATIONAL MECHANICS (APCOM), HONG KONG, Hong Kong, 11 - 13 December 1991, pp.1037-1042

Metrics

Publication: 23
Citation (WoS): 289
Citation (Scopus): 350
H-Index (WoS): 8
H-Index (Scopus): 8

Non Academic Experience

METU