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Personal Information

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Address: Akdeniz Üniversitesi, Mühendislik Fakültesi, İnşaat mühendisliği bölümü

Education Information

Undergraduate, Suleyman Demirel University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2008 - 2013

Undergraduate, Budapeste Teknik Üniversitesi, Engineering Faculty, Civil Eng., Hungary 2012 - 2012

Foreign Languages

French, C1 Advanced

English, C1 Advanced

Russian, B1 Intermediate

Research Areas

Mechanics of Solid Bodies, Civil Engineering, Mechanical, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Akdeniz University, Faculty of Engineering, Department of Civil Engineering, 2014 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effect of silicon dioxide substrate on buckling behavior of Zinc Oxide nanotubes via size-dependent continuum theories**
Mercan K., EMSEN E., CİVALEK Ö.
COMPOSITE STRUCTURES, vol.218, pp.130-141, 2019 (SCI-Expanded)
- II. **Free vibration of laminated and FGM/CNT composites annular thick plates with shear deformation by discrete singular convolution method**
Mercan K., BALTACIOĞLU A. K., CİVALEK Ö.
COMPOSITE STRUCTURES, vol.186, pp.139-153, 2018 (SCI-Expanded)
- III. **Frequencies of FGM shells and annular plates by the methods of discrete singular convolution and differential quadrature methods**
ERSOY H., Mercan K., CİVALEK Ö.
COMPOSITE STRUCTURES, vol.183, pp.7-20, 2018 (SCI-Expanded)
- IV. **Higher-order continuum theories for buckling response of silicon carbide nanowires (SiCNWs) on elastic matrix**

Mercan K., NUMANOGLU H. M., AKGÖZ B., DEMİR C. C., CİVALEK Ö.

ARCHIVE OF APPLIED MECHANICS, vol.87, no.11, pp.1797-1814, 2017 (SCI-Expanded)

- V. **Buckling analysis of Silicon carbide nanotubes (SiCNTs) with surface effect and nonlocal elasticity using the method of HDQ**

Mercan K., CİVALEK Ö.

COMPOSITES PART B-ENGINEERING, vol.114, pp.35-45, 2017 (SCI-Expanded)

- VI. **Free vibration analysis of graphene sheets on elastic matrix**

Demir C., AKGÖZ B., ERDINC M. C., Mercan K., CİVALEK Ö.

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.32, no.2, pp.551-562, 2017 (SCI-Expanded)

- VII. **Determination of critical buckling loads of isotropic, FGM and laminated truncated conical panel**

Demir C., Mercan K., CİVALEK Ö.

COMPOSITES PART B-ENGINEERING, vol.94, pp.1-10, 2016 (SCI-Expanded)

- VIII. **DSC method for buckling analysis of boron nitride nanotube (BNNT) surrounded by an elastic matrix**

Mercan K., CİVALEK Ö.

COMPOSITE STRUCTURES, vol.143, pp.300-309, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Bending Response of Nanobeams Resting on Elastic Foundation**

Demir C., Mercan K., Numanoglu H. M., CİVALEK Ö.

JOURNAL OF APPLIED AND COMPUTATIONAL MECHANICS, vol.4, no.2, pp.105-114, 2018 (ESCI)

- II. **Nano ölçekli plakların serbest titreşimi ve tek katmanlı grafen uygulaması**

MERCAN K., IŞIK Ç., CİVALEK Ö.

BALIKESİR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.19, no.1, pp.104-117, 2017 (Peer-Reviewed Journal)

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BALIKESİR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.19, no.1, pp.104-117, 2017 (Peer-Reviewed Journal)

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BALIKESİR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.19, no.1, pp.104-117, 2017 (Peer-Reviewed Journal)

- V. **Frequencies Values of Orthotropic Composite Circular and Annular Plates**

MERCAN K., AKGÖZ B., IŞIK Ç., CİVALEK Ö.

International Journal of Engineering and Applied Sciences (IJEAS), vol.9, no.2, pp.55-65, 2017 (Peer-Reviewed Journal)

- VI. **Frequencies Values of Orthotropic Composite Circular and Annular Plates**

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International Journal of Engineering and Applied Sciences (IJEAS), vol.9, no.2, pp.55-65, 2017 (Peer-Reviewed Journal)

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International Journal of Engineering and Applied Sciences (IJEAS), vol.9, no.2, pp.55-65, 2017 (Peer-Reviewed Journal)

- VIII. **What is The Correct Mechanical Model of Aorta Artery**

MERCAN K., CİVALEK Ö.

International Journal of Engineering & Applied Sciences (IJEAS), vol.9, no.2, pp.138-146, 2017 (Peer-Reviewed)

Journal)

- IX. **Frequency and Mode Shapes of Au Nanowires Using the Continuous Beam Models**
Numanoglu H. M., MERCAN K., CİVALEK Ö.
International Journal of Engineering & Applied Sciences (IJEAS), vol.9, no.1, pp.55-61, 2017 (Peer-Reviewed Journal)
- X. **Vibration analysis of graphene sheets using membrane model**
Demir C., Mercan K., ERSOY H., CİVALEK Ö.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.23, no.6, pp.652-658, 2017 (ESCI)
- XI. **Free vibration analysis of annular sector plates via conical shell equations**
Demir C., ERSOY H., Mercan K., CİVALEK Ö.
CURVED AND LAYERED STRUCTURES, vol.4, no.1, pp.146-157, 2017 (ESCI)
- XII. **A Comparative Buckling Analysis of Silicon Carbide Nanotube and Boron Nitride Nanotube**
MERCAN K.
International Journal of Engineering & Applied Sciences (IJEAS), vol.4, no.8, pp.99-107, 2016 (Peer-Reviewed Journal)
- XIII. **Static analysis of beams on elastic foundation by the method of discrete singular convolution**
AKGÖZ B., MERCAN K., IŞIK Ç., CİVALEK Ö.
International Journal of Engineering & Applied Sciences (IJEAS), vol.8, no.3, pp.67-73, 2016 (Peer-Reviewed Journal)
- XIV. **Discrete Singular Convolution and Differential Quadrature Method for Buckling Analysis of Laminated Composite Plates**
MERCAN K., AYDOĞDU İ., CİVALEK Ö.
International Journal of Engineering & Applied Sciences (IJEAS), vol.4, no.8, pp.66-74, 2016 (Peer-Reviewed Journal)
- XV. **Static analysis of beams on elastic foundation by the method of discrete singular convolution**
AKGÖZ B., MERCAN K., IŞIK Ç., CİVALEK Ö.
International Journal of Engineering & Applied Sciences (IJEAS), vol.8, no.3, pp.67-73, 2016 (Peer-Reviewed Journal)
- XVI. **Static analysis of beams on elastic foundation by the method of discrete singular convolution**
AKGÖZ B., MERCAN K., IŞIK Ç., CİVALEK Ö.
International Journal of Engineering and Applied Sciences, vol.8, no.3, pp.67-73, 2016 (Peer-Reviewed Journal)
- XVII. **Buckling Analysis of Silicon Carbide Nanotubes (SiCNTs)**
MERCAN K., CİVALEK Ö.
International Journal of Engineering and Applied Sciences, vol.8, no.2, pp.101-108, 2016 (Peer-Reviewed Journal)
- XVIII. **Free Vibration of Annular Plates by Discrete Singular Convolution and Differential Quadrature Methods**
Mercan K., ERSOY H., CİVALEK Ö.
JOURNAL OF APPLIED AND COMPUTATIONAL MECHANICS, vol.2, no.3, pp.128-133, 2016 (ESCI)
- XIX. **The Effects of Thickness On Frequency Values for Rotating Circular Shells**
MERCAN K., IŞIK Ç., ERSOY H., CİVALEK Ö.
International Journal of Engineering & Applied Sciences, vol.8, no.1, pp.26-37, 2016 (Peer-Reviewed Journal)
- XX. **Vibration analysis of FG cylindrical shells with power-law index using discrete singular convolution technique**
Mercan K., Demir C., CİVALEK Ö.
CURVED AND LAYERED STRUCTURES, vol.3, no.1, pp.82-90, 2016 (ESCI)
- XXI. **A Simple Buckling Analysis of Aorta Artery**
MERCAN K., CİVALEK Ö.
International Journal of Engineering & Applied Sciences, vol.7, no.4, pp.34-44, 2016 (Peer-Reviewed Journal)
- XXII. **Coordinate Transformation for Sector and Annular Sector Shaped Graphene Sheets on Silicone Matrix**

MERCAN K., IŞIK Ç., AKGÖZ B., CİVALEK Ö.

International Journal of Engineering and Applied Sciences, vol.7, no.2, pp.56-73, 2015 (Peer-Reviewed Journal)

XXIII. **Modal analysis of tapered beam-column embedded in Winkler elastic foundation**

EMSEN E., MERCAN K., AKGÖZ B., CİVALEK Ö.

International Journal of Engineering and Applied Sciences, vol.7, no.1, pp.25-35, 2015 (Peer-Reviewed Journal)

XXIV. **MODAL ANALYSIS OF TAPERED BEAM-COLUMN EMBEDDED IN WINKLER ELASTIC FOUNDATION**

EMSEN E., MERCAN K., AKGÖZ B., CİVALEK Ö.

IJEAS, no.7, pp.25-35, 2015 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Large deflection analysis of carbon nanotubes (CNTs) reinforced composite plates using the differential quadrature methods**
CİVALEK Ö., ERSOY H., MERCAN K.
5th International Conference on Mechanics of Composites, Lisbon, Portugal, 1 - 04 July 2019, pp.13
- II. **Investigating the Effect of Silicon Dioxide Substrate on Nanowires/Nanotubes Buckling**
MERCAN K., IŞIK Ç., AKGÖZ B., CİVALEK Ö.
4th International Conference on Mechanics of Composites, Madrid, Spain, 9 - 12 July 2018, pp.52
- III. **An investigation for the multiple effects on vibration response of functionally graded thick microbeams**
AKGÖZ B., IŞIK Ç., MERCAN K., CİVALEK Ö.
20th International Conference on Composite Structures, Paris, France, 4 - 07 September 2017, pp.285
- IV. **An investigation for the multiple effects on vibration response of functionally graded thick microbeams**
AKGÖZ B., IŞIK Ç., MERCAN K., CİVALEK Ö.
20th International Conference on Composite Structures, Paris, France, 4 - 07 September 2017, pp.285
- V. **An exponential shear deformation microbeam model via strain gradient elasticity**
AKGÖZ B., IŞIK Ç., MERCAN K., CİVALEK Ö.
20th International Conference on Composite Structures, Paris, France, 4 - 07 September 2017, pp.286
- VI. **An exponential shear deformation microbeam model via strain gradient elasticity**
AKGÖZ B., IŞIK Ç., MERCAN K., CİVALEK Ö.
20th International Conference on Composite Structures, Paris, France, 4 - 07 September 2017, pp.286
- VII. **An exponential shear deformation microbeam model via strain gradient elasticity**
AKGÖZ B., IŞIK Ç., MERCAN K., CİVALEK Ö.
20th International Conference on Composite Structures, Paris, France, 4 - 07 September 2017, pp.286
- VIII. **An investigation for the multiple effects on vibration response of functionally graded thick microbeams**
AKGÖZ B., IŞIK Ç., MERCAN K., CİVALEK Ö.
20th International Conference on Composite Structures, Paris, France, 4 - 07 September 2017, pp.285
- IX. **An exponential shear deformation microbeam model via strain gradient elasticity**
AKGÖZ B., IŞIK Ç., MERCAN K., CİVALEK Ö.
20th International Conference on Composite Structures, Paris, France, 4 - 07 September 2017, pp.286
- X. **Comparison of higher-order shear deformation theories on static analysis of rectangular plates**
CİVALEK Ö., MERCAN K.
International Conference on Composite Structures, Porto, Portugal, 5 - 09 September 2016, pp.52
- XI. **Comparison of higher-order shear deformation theories on static analysis of rectangular plates**
CİVALEK Ö., MERCAN K.
International Conference on Composite Structures, Porto, Portugal, 5 - 09 September 2016, pp.52
- XII. **Buckling of boron nitride nanotubes surrounded by an elastic matrix**
MERCAN K., CİVALEK Ö., IŞIK Ç., AKGÖZ B.

International Conference on Mechanics of Composites, Porto, Portugal, 11 - 14 July 2016, pp.92

XIII. Buckling of boron nitride nanotubes surrounded by an elastic matrix

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International Conference on Mechanics of Composites, Porto, Portugal, 11 - 14 July 2016, pp.92

XVI. The effect of geometric and material parameters on the static behavior of laminated plates

CİVALEK Ö., AKGÖZ B., MERCAN K., IŞIK Ç.

International Conference on Advances in Composite Materials and Structures, İstanbul, Turkey, 13 - 15 April 2015, vol.1, no.1, pp.1

XVII. The effect of geometric and material parameters on the static behavior of laminated plates

CİVALEK Ö., AKGÖZ B., MERCAN K., IŞIK Ç.

International Conference on Advances in Composite Materials and Structures, İstanbul, Turkey, 13 - 15 April 2015, vol.1, no.1, pp.1

XVIII. The effect of geometric and material parameters on the static behavior of laminated plates

CİVALEK Ö., AKGÖZ B., MERCAN K., IŞIK Ç.

International Conference on Advances in Composite Materials and Structures, İstanbul, Turkey, 13 - 15 April 2015, vol.1, no.1, pp.1

Supported Projects

CİVALEK Ö., MERCAN K., IŞIK Ç., AKGÖZ B., Numanoğlu H. M., Project Supported by Higher Education Institutions, Bor nitrit ve silikon karbit nanotüplerin sürekli mekanik model ile boyut etkisine bağlı titreşim ve burkulma hesapları, 2017 - 2018

Activities in Scientific Journals

International Journal of Engineering & Applied Sciences (IJEAS), Assistant Editor/Section Editor, 2016 - Continues

Metrics

Publication: 50

Citation (WoS): 458

Citation (Scopus): 503

H-Index (WoS): 10

H-Index (Scopus): 10

Scholarships

Yüksek lisans ve doktora bursu, TÜBİTAK, 2014 - Continues