

Personal Information

Email: durmazseh@itu.edu.tr

Web: <https://avesis.itu.edu.tr/durmazseh>

International Researcher IDs

ORCID: 0000-0002-1868-0791

ScopusID: 25651519000

Yoksis Researcher ID: 151901

Education Information

Post Doctorate, Cornell University, Sibley School of Mechanical and Aerospace Engineering, Department of Mechanical and Aerospace Engineering, United States Of America 2014 - 2016

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Uçak ve Uzay Mühendisliği, Turkey 2009 - 2013

Undergraduate, Istanbul Technical University, Uçak ve Uzay Bilimleri, Uçak Mühendisliği, Turkey 2002 - 2007

Research Areas

Mechanical Vibrations, Solid Mechanics, Aeroelasticity

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Uçak ve Uzay Bilimleri, Uzay Mühendisliği, 2022 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Vibration and stability analysis of a spinning thin-walled composite beam carrying a rigid body**
Eken S., Cihan M., Kaya M. O.
ARCHIVE OF APPLIED MECHANICS, vol.91, no.3, pp.809-822, 2021 (SCI-Expanded)
- II. **Free vibration analysis of composite aircraft wings modeled as thin-walled beams with NACA airfoil sections**
Eken S.
THIN-WALLED STRUCTURES, vol.139, pp.362-371, 2019 (SCI-Expanded)
- III. **Flexural-torsional coupled vibration of anisotropic thin-walled beams with biconvex cross-section**
Eken S., Kaya M. O.
THIN-WALLED STRUCTURES, vol.94, pp.372-383, 2015 (SCI-Expanded)
- IV. **Approximate solutions for nonlinear oscillation of a mass attached to a stretched elastic wire**
Durmaz S., Altay Demirbağ S., Kaya M. O.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.61, no.3, pp.578-585, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Yüksek Performanslı Kumaş Zırhların Balistik Dayanımlarının Sayısal Olarak İncelenmesi**
Eken S.
Tekstil ve Mühendis, vol.24, no.105, pp.2-12, 2017 (Scopus)
- II. **Computational ballistic impact analysis of aircraft armors**
Eken S., Yıldız A., Phoenix S. L.
Journal of Aeronautics and Space Technologies, vol.10, no.1, pp.81-95, 2017 (Peer-Reviewed Journal)
- III. **The effect of sweep angle on the limit cycle oscillations of aircraft wings**
Eken S., Kaya M. O.
ADVANCES IN AIRCRAFT AND SPACECRAFT SCIENCE, vol.2, no.2, pp.199-215, 2015 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Computational Analysis of Orbital Debris Impact on Spacecraft Shields**
Ulusoy U., Eken S.
8th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 19 - 22 June 2017, pp.235-240
- II. **Active vibration control applications for adaptive aircraft wings modelled as thin-walled composite beams**
Yildiz K., Eken S., Kaya M. O.
57th AIAA/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference, 2016, California, United States Of America, 4 - 08 January 2016
- III. **Optimal Control Procedure Application for Dynamic Response of Adaptive Aircraft Wings Modeled as Thin Walled Composite Beams**
Kaan Y., Seher E., KAYA M. O.
The 6th International Conference on Mechanical and Aerospace Engineering-ICMAE, 16 - 17 July 2015
- IV. **Effect of the Transverse Shear Deformation on the Free Vibration of Rotating Blades Modeled as Thin Walled Composite Beams**
Yilmaz S., Seher E., KAYA M. O.
The 6th International Conference on Mechanical and Aerospace Engineering-ICMAE, 16 - 17 July 2015
- V. **Aeroleastic analysis of a thin-walled composite aircraft wing with an external store subjected to a follower force**
Aksongur A. K., EKEN S., KAYA M. O.
ASME-IMECE2014-38479, International Mechanical Engineering Congress Exposition, 14 - 20 November 2014
- VI. **ACTIVE VIBRATION CONTROL OF AIRCRAFT WINGS MODELED AS THIN-WALLED COMPOSITE BEAMS USING PIEZOELECTRIC ACTUATION**
Yildiz K., Eken S., Kaya M. O.
ASME International Mechanical Engineering Congress and Exposition (IMECE), Montreal, Canada, 14 - 20 November 2014
- VII. **DYNAMIC AND AEROELASTIC ANALYSES OF A WIND TURBINE BLADE MODELED AS A THIN-WALLED COMPOSITE BEAM**
Yilmaz S., Eken S., Kaya M. O.
ASME International Mechanical Engineering Congress and Exposition (IMECE), Montreal, Canada, 14 - 20 November 2014
- VIII. **AEROELASTIC ANALYSIS OF A THIN-WALLED COMPOSITE AIRCRAFT WING WITH AN EXTERNAL STORE SUBJECTED TO A FOLLOWER FORCE**
Aksongur A. K., Eken S., Kaya M. O.
ASME International Mechanical Engineering Congress and Exposition (IMECE), Montreal, Canada, 14 - 20 November 2014
- IX. **GEOMETRICALLY NONLINEAR VIBRATION ANALYSIS OF THIN-WALLED. COMPOSITE BEAMS**
Durmaz S., Kaya M. O.

ASME International Mechanical Engineering Congress and Exposition (IMECE2013), California, United States Of America, 15 - 21 November 2013

- X. **Aeroelastic instability of aircraft wings modeled as thin-walled composite beams**
EKEN S., KAYA M. O.
7th Ankara International Aerospace Conference, 11 - 13 September 2013
- XI. **OK AÇILI UÇAK KANATLARININ DOĞRUSAL OLMAYAN AEROELASTİK ANALİZİ**
EKEN S., KAYA M. O.
IV. Ulusal Havacılık Ve Uzay Konferansı, Turkey, 12 - 14 September 2012
- XII. **Flutter Analysis of Golland Wing via Finite Element Method**
ÖZDEMİR Ö., EKEN S., KAYA M. O.
6th Ankara International Aerospace Conference, Ankara, Turkey, 14 - 16 September 2011
- XIII. **Vibration analysis of rotating thin-walled composite beam via finite element method**
ÖZDEMİR Ö., EKEN S., KAYA M. O.
International Forum of Aeroelasticity and Structural Dynamics, IFASD 2011, 26 - 30 June 2011
- XIV. **Approximate Analytical Solutions of Nonlinear Flutter of Aircraft Wings**
EKEN S., Kerki T., KAYA M. O.
International Forum of Aeroelasticity and Structural Dynamics, IFASD 2011, 26 - 30 June 2011
- XV. **Free Vibration Analysis of Rotating Thin-Walled Composite Beams**
EKEN S., ÖZDEMİR Ö., KAYA M. O.
5th International Conference on Recent Advances in Space Technologies, Rast 2011, 9 - 11 June 2011
- XVI. **Finite Element Analysis of A Thin Walled Composite Wing by Including Warping Effects**
EKEN S., ÖZDEMİR Ö., KAYA M. O.
2010 ASME International Mechanical Engineering Congress and Exposition, Vancouver, Canada, 12 - 18 November 2010
- XVII. **İnce Cidarlı Kompozit Bir Kirişin Statik ve Dinamik Davranışı**
EKEN S., KAYA M. O.
III. Ulusal Havacılık Ve Uzay Konferansı, Turkey, 16 - 18 September 2010
- XVIII. **FREE VIBRATION OF AN ANISOTROPIC THIN-WALLED BOX BEAM UNDER BENDING-TORSION COUPLING**
EKEN S., KAYA M. O.
3rd International Conference on Integrity, Reliability and Failure, 20 - 24 July 2009
- XIX. **SESALTI BİR KANADIN P-K METHODU İLE FLUTTER ANALİZİ**
EKEN S., ÖZDEMİR Ö., Özüncer A. D., KAYA M. O.
KAYSERİ VII. HAVACILIK SEMPOZYUMU, Turkey, 15 - 16 May 2008
- XX. **Sesaltı Bir Kanadın Pk Metodu ile Flutter Analizi**
EKEN S., ÖZDEMİR Ö., Özüncer A. D., KAYA M. O.
Kayseri VII. Havacılık Sempozyumu, Kayseri, Turkey, 15 - 16 May 2008
- XXI. **Aeroelastic Analysis of a Tapered Aircraft Wing**
EKEN S., ÖZDEMİR Ö., KAYA M. O.
4. Ankara International Aerospace Conference, 10-12 September 2007, 10 - 12 September 2007

Supported Projects

Alpman E., Eken S., Kavurmacıoğlu L. A., Company, Çok disiplinli ses üstü uçak tasarımı için çok doğruluklu aerodinamik, aeroelastik ve aeroakustik analiz yazılımı altyapısı geliştirilmesi, 2019 - 2020

Metrics

Publication: 55

Citation (WoS): 68

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H-Index (Scopus): 6