

## Res. Asst. PhD SERVET MERT KUTSAL

### Personal Information

**Email:** servet.mert@kocaeli.edu.tr

**Web:** <https://avesis.kocaeli.edu.tr/servet.mert>

### International Researcher IDs

ORCID: 0000-0001-6985-8767

Publons / Web Of Science ResearcherID: F-7137-2018

Yoksis Researcher ID: 146478

### Education Information

Doctorate, Kocaeli University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2016 - 2023

Postgraduate, Istanbul Technical University, Afet Yönetimi Enstitüsü, Earthquake Engineering, Turkey 2013 - 2016

Undergraduate Double Major, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, Turkey 2010 - 2013

Undergraduate, Yildiz Technical University, Faculty Of Civil Engineering, Çevre Mühendisliği Bölümü, Turkey 2008 - 2012

### Research Areas

Civil Engineering, Hydraulic, Mechanical

### Academic Titles / Tasks

Research Assistant, Kocaeli University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2014 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Analysis of functionally graded rotating disks via analytical approximation methods**  
Mert Kutsal S., Coşkun S. B.  
MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES, vol.0, no.0, pp.1-21, 2023 (SCI-Expanded)
- II. **Analytical approximations for elastic limit angular velocities of rotating annular disks with hyperbolic thickness**  
Mert Kutsal S., Coşkun S. B.  
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.45, no.6, pp.1-12, 2023 (SCI-Expanded)
- III. **Deformation Analysis of Variable Thickness Rotating Disks Using an Improved Adomian Decomposition Technique**  
Mert Kutsal S., Coşkun S. B.  
International Journal of Applied Mechanics, vol.12, 2020 (SCI-Expanded)
- IV. **CHARACTERIZATION OF AMBIENT VOLATILE ORGANIC COMPOUNDS AND THEIR DIURNAL VARIATIONS IN ISTANBUL, TURKEY**  
DEMİR S., SARAL A., Isik D., Akyildiz A., KUZU S. L., Mert S., Demir G., GONCALOĞLU B. İ.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.20, no.11, pp.2951-2958, 2011 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Elastic Stress Analysis of Hyperbolic Rotating Disks via Optimal Homotopy Asymptotic Method**  
Mert Kutsal S., Coşkun S. B.  
International Journal of Engineering Research in Mechanical and Civil Engineering, vol.10, no.4, pp.5-9, 2023 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Stress analysis on Functionally Graded Rotating Cylinders via IADM**  
Mert Kutsal S., Coşkun S. B.  
ADVANCED PHYSICS; APPLICATIONS AND SCIENTIFIC INNOVATIONS, Barcelona, Spain, 19 - 20 September 2024, pp.17
- II. **Elastic Stress Analysis of Hyperbolic Rotating Disks via Optimal Homotopy Asymptotic Method**  
Mert Kutsal S., Coşkun S. B.  
International Conference on Mathematical Techniques in Engineering Applications, Helsingor, Denmark, 02 February 2023, pp.42
- III. **Vibration of Nanobeams Using Adomian Decomposition Method**  
COŞKUN S. B., MERT KUTSAL S.  
4th INTERNATIONAL ENERGY ENGINEERING CONGRESS 2019 (UEMK 2019), Gaziantep, Turkey, 24 - 25 October 2019, pp.606-610
- IV. **Buckling of Nanobeams Using Adomian Decomposition Method**  
COŞKUN S. B., MERT KUTSAL S.  
4th INTERNATIONAL ENERGY ENGINEERING CONGRESS 2019 (UEMK 2019), Gaziantep, Turkey, 24 - 25 October 2019, pp.601-605
- V. **Analytical Approximations for Elastic Stresses and Displacements of Variable Thickness Rotating Disks via Improved Adomian Decomposition Method**  
MERT KUTSAL S., COŞKUN S. B.  
13th INTERNATIONAL CONGRESS ON ADVANCES IN CIVIL ENGINEERING (ACE 2018), 12 - 14 September 2018
- VI. **Is Civil Engineering Education at Kocaeli University Helping Students Realize Their Potentialities?**  
Erdoğan H., Gazeloğlu C., Engin S., Coşkun S. B., Atay M. T., Mert Kutsal S.  
13th International Congress on Advances in Civil Engineering (ACE2018), İzmir, Turkey, 12 - 14 September 2018, pp.1-8
- VII. **SOME ANALYTICAL APPROXIMATE METHODS FOR TORSIONAL VIBRATIONS AND STABILITY OF THIN-WALLED BEAMS ON ELASTIC FOUNDATIONS**  
COŞKUN S. B., MERT KUTSAL S., GÖÇER M.  
3rd CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 19 - 21 December 2017, pp.581
- VIII. **ANALYSIS OF TWIST-BEND BUCKLING OF A CANTILEVER BEAM SUBJECTED TO AN END LOAD VIA ADM AND VIM**  
YÜCESOY A., COŞKUN S. B., MERT KUTSAL S.  
3rd CONFERENCE ON ADVANCES IN MECHANICAL, İstanbul, Turkey, 19 - 21 December 2017, pp.587
- IX. **Analysis of Beams on Elastic Foundation Using Artificial Lyapunov Parameter**  
MERT KUTSAL S., TEMİZ M. M., COŞKUN S. B.  
3rd Conference on Advance in Mechanical Engineering İstanbul 2017-ICAME 2017, İstanbul, Turkey, 19 - 21 December 2017
- X. **Modelling of Tsunami for multiple mass movements under the sea**  
HAYIR A., MERT KUTSAL S.  
16th World Conference on Earthquake, 9 - 13 January 2017
- XI. **The Effects Of Sliding Block As A Kind Of Submarine Mass Movements On The Tsunami Amplitudes**

MERT KUTSAL S., HAYIR A.

The 26th International Ocean and Polar Engineering Conference, Rodos, Greece, 26 June - 01 July 2016, pp.695

**XII. OBSERVING THE EFFECT OF SOURCE LOCATION AND SIZE ON TSUNAMI AMPLITUDES FOR LANDSLIDE SOURCED TSUNAMIS**

MERT KUTSAL S., HAYIR A.

International Conference On Engineering And Natural Science, Saraybosna, Bosnia And Herzegovina, 24 - 28 May 2016, pp.970-974

**XIII. IMPORTANCE OF WATER DEPTH AND ITS EFFECT ON TSUNAMI AMPLITUDES**

MERT KUTSAL S.

Natural Disasters and Disaster Management Symposium (DAAYS'xx16), Karabük, Karabük, Turkey, 2 - 04 March 2016, pp.488-491

**XIV. Effects of Submarine Multiple Mass Movements on Near The Field Tsunami Amplitudes**

MERT S., HAYIR A.

5. Uluslararası Deprem Sempozyumu, Kocaeli, Turkey, 10 - 12 June 2015, pp.114

## **Metrics**

Publication: 19

Citation (WoS): 15

Citation (Scopus): 17

H-Index (WoS): 2

H-Index (Scopus): 2

## **Non Academic Experience**

Derya Mühendislik