

## **Personal Information**

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## **International Researcher IDs**

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## **Education Information**

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

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

Undergraduate, Yıldız 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. 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

**II. 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

**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. 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

**V. 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

**VI. 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

**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 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

**IX. Modelling of Tsunami for multiple mass movements under the sea**

HAYIR A., MERT KUTSAL S.

16th World Conference on Earthquake, 9 - 13 January 2017

**X. 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

**XI. 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

**XII. 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

**XIII. 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: 18

Citation (WoS): 12

Citation (Scopus): 15

H-Index (WoS): 2

H-Index (Scopus): 2

## **Non Academic Experience**

Derya Mühendislik