

## Asst. Prof. GÖKHAN ADIYAMAN

### Personal Information

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### Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği Anabilim Dalı, Turkey 2014 - 2019

Postgraduate, Karadeniz Technical University, Fen Bilimleri, İnşaat Mühendisliği, Turkey 2011 - 2013

Undergraduate, Middle East Technical University, Faculty Of Engineering, İnşaat Mühendisliği, Turkey 2001 - 2010

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

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

### Academic Titles / Tasks

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2019 - Continues

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2011 - 2019

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **On the plane receding contact between two functionally graded layers using computational, finite element and artificial neural network methods**  
Oner E., Sengul Sabano B., Uzun Yaylaci E., ADIYAMAN G., YAYLACI M., BİRİNCİ A.  
ZAMM-ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK, 2022 (Journal Indexed in SCI)
- II. **Investigation of continuous and discontinuous contact cases in the contact mechanics of graded materials using analytical method and FEM**  
Yaylaci M., Adiyaman G., Öner E., Birinci A.  
Computers And Concrete, vol.27, no.3, pp.199-210, 2021 (Journal Indexed in SCI Expanded)
- III. **Assessment of different solution methods for receding contact problems in functionally graded layered mediums**  
Yaylaci M., Eyüboğlu A., Adiyaman G., Uzun Yaylaci E., Öner E., Birinci A.  
Mechanics Of Materials, vol.154, pp.1-15, 2021 (Journal Indexed in SCI)
- IV. **Examination of analytical and finite element solutions regarding contact of a functionally graded layer**  
Yaylaci M., Adiyaman G., Öner E., Birinci A.

Structural Engineering And Mechanics, vol.76, no.3, pp.325-336, 2020 (Journal Indexed in SCI Expanded)

- V. **A receding contact problem of a layer resting on a half plane**  
Karabulut P. M. , ADIYAMAN G., BİRİNCİ A.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.64, no.4, pp.505-513, 2017 (Journal Indexed in SCI)
- VI. **Continuous and discontinuous contact problem of a functionally graded layer resting on a rigid foundation**  
ADIYAMAN G., ÖNER E., BİRİNCİ A.  
ACTA MECHANICA, vol.228, no.9, pp.3003-3017, 2017 (Journal Indexed in SCI)
- VII. **A receding contact problem between a functionally graded layer and two homogeneous quarter planes**  
ADIYAMAN G., BİRİNCİ A., ÖNER E., Yaylaci M.  
ACTA MECHANICA, vol.227, no.6, pp.1753-1766, 2016 (Journal Indexed in SCI)
- VIII. **Axisymmetric analysis of a functionally graded layer resting on elastic substrate**  
TURAN M., ADIYAMAN G., KAHYA V., BİRİNCİ A.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.58, no.3, pp.423-442, 2016 (Journal Indexed in SCI)
- IX. **Analytical and finite element solution of a receding contact problem**  
ADIYAMAN G., Yaylaci M., BİRİNCİ A.  
STRUCTURAL ENGINEERING AND MECHANICS, vol.54, no.1, pp.69-85, 2015 (Journal Indexed in SCI)
- X. **Analysis of Continuous and Discontinuous Cases of a Contact Problem Using Analytical Method and FEM**  
BİRİNCİ A., ADIYAMAN G., YAYLACI M., Oner E.  
LATIN AMERICAN JOURNAL OF SOLIDS AND STRUCTURES, vol.12, no.9, pp.1771-1789, 2015 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **THE GENERAL SOLUTION OF A LAYERED MEDIUM RESTING ON A RIGID FOUNDATION**  
ADIYAMAN G., ÖNER E., BİRİNCİ A.  
Sigma Journal of Engineering and Natural Sciences, vol.9, no.2, pp.213-222, 2018 (Journal Indexed in ESCI)
- II. **A general solution for the receding contact problem of a functionally graded layer resting on a Winkler foundation**  
ADIYAMAN G., BİRİNCİ A.  
Journal of Structural Engineering and Applied Mechanics, vol.0, no.0, 2018 (International Refereed University Journal)
- III. **THE GENERAL SOLUTION OF A LAYERED MEDIUM RESTING ON A RIGID FOUNDATION**  
ADIYAMAN G., ÖNER E., BİRİNCİ A.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.9, no.2, pp.213-222, 2018 (Journal Indexed in ESCI)
- IV. **Continuous and Discontinuous Contact Problems of a Functionally Graded Layer**  
ADIYAMAN G., ÖNER E., BİRİNCİ A.  
International Journal of Computational Experimental Science and Engineering, no.3, pp.12-14, 2017 (Refereed Journals of Other Institutions)
- V. **ANALYSIS OF A LONG STRIP CONTAINING AN INTERNAL OR EDGE CRACK USING FEM**  
YAYLACI M., BİRİNCİ A., ADIYAMAN G., ÖNER E.  
Sigma Journal Engineering and Natural Sciences, no.34, pp.269-278, 2016 (International Refereed University Journal)
- VI. **ANALYSIS OF A LONG STRIP CONTAINING AN INTERNAL OR EDGE CRACK USING FEM**  
Yaylaci M., BİRİNCİ A., ADIYAMAN G., ÖNER E.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.34, no.2, pp.269-278, 2016 (Journal Indexed in ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **İki Çeyrek Düzlem Üzerine Oturan Elastik Bir Tabakanın Sürtünmesiz ve Ayrılmalı Temas Problemi**  
BİRİNCİ A., ADIYAMAN G.  
XVIII. Ulusal Mekanik Kongresi, Manisa, Turkey
- II. **İki Çeyrek Düzlem Üzerine Oturan Elastik Bir Tabakanın Sürtünmesiz ve Ayrılmalı Temas Problemi**  
ADIYAMAN G., BİRİNCİ A.  
XVIII. Ulusal Mekanik Kongresi, Manisa, Turkey
- III. **A Finite Element Modelling for Interface Separation in Contact Problem of Functionally Graded Layer and Homogeneous Half Space**  
YAYLACI M., ÖNER E., ADIYAMAN G., BİRİNCİ A.  
International Conference on Advanced Engineering Technologies (ICADET 2019), Bayburt, Turkey, 19 - 21 September 2019
- IV. **DOUBLE RECEDING CONTACT PROBLEM OF A LAYERED MEDIUM CONSISTS OF TWO FUNCTIONALLY GRADED LAYERS**  
ADIYAMAN G., BİRİNCİ A.  
International Civil Engineering & Architecture Conference,, Trabzon, Turkey, 17 - 20 April 2019, pp.1005-1012
- V. **Frictionless receding contact problem of a layered composite resting on a Winkler foundation**  
EYÜBOĞLU A., BİRİNCİ A., ADIYAMAN G.  
International Civil Engineering & Architecture Conference,, Trabzon, Turkey, 17 - 20 April 2019, pp.990-996
- VI. **Discontinuous contact problem of a functionally graded layer resting on a half plane**  
ADIYAMAN G., ÖNER E., YAYLACI M., BİRİNCİ A.  
International Civil Engineering & Architecture Conference,, Trabzon, Turkey, 17 - 20 April 2019, pp.997-1004
- VII. **Continuous Contact Problem between a Functionally Graded Layer and a Rigid Foundation Pressed by a Rigid Stamp**  
ÖNER E., ADIYAMAN G., YAYLACI M., BİRİNCİ A.  
1st International Technology Sciences and Design Symposium (ITESDES), Giresun, Turkey, 27 - 29 June 2018, pp.587-588
- VIII. **Plane Contact Problem on Indentation of a Circular Punch into a Functionally Graded Layer**  
ÖNER E., ADIYAMAN G., Yaylacı M., BİRİNCİ A.  
3. International Congress on Engineering, Architecture and Design, Kocaeli, Turkey, 4 - 05 May 2018, pp.161-162
- IX. **The receding contact problem of a functionally graded layer resting on a Winkler foundation", 3. International Conference on Civil and Environmental Engineering (ICOCEE)**  
ADIYAMAN G., BİRİNCİ A.  
The receding contact problem of a functionally graded layer resting on a Winkler foundation", 3. International Conference on Civil and Environmental Engineering (ICOCEE), 24 - 27 April 2018, vol.2, pp.477
- X. **The receding contact problem of a functionally graded layer resting on a Winkler foundation**  
ADIYAMAN G., BİRİNCİ A.  
3. International Conference on Civil and Environmental Engineering (ICOCEE), İzmir, Turkey, 24 - 27 April 2018, vol.2, pp.477
- XI. **The continuous contact problem of a functionally graded layer resting on a half plan**  
ADIYAMAN G., ÖNER E., Yaylacı M., BİRİNCİ A.  
3. International Conference on Civil and Environmental Engineering (ICOCEE), İzmir, Turkey, 24 - 27 April 2018, vol.2, pp.444
- XII. **The continuous contact problem of a functionally graded layer resting on a half plane**  
ADIYAMAN G., ÖNER E., YAYLACI M., BİRİNCİ A.  
3. International Conference on Civil and Environmental Engineering (ICOCEE), İzmir, Turkey, 24 - 27 April 2018, vol.2, pp.444
- XIII. **Fonksiyonel Derecelendirilmiş Tabaka ile Homojen Yarım Düzlem Arasındaki Süreksiz Temas Probleminin Elastisite Teorisine Göre Çözümü**  
ÖNER E., ADIYAMAN G., BİRİNCİ A.

- International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017
- XIV. **RİJİT ZEMİNE OTURAN TABAKALI BİR SİSTEMİN ÇİFT AYRILMALI TEMAS PROBLEMİ**  
ADIYAMAN G., BİRİNCİ A.  
International Conference on Advanced Engineering Technologies, Bayburt, Turkey, 21 - 23 September 2017
- XV. **Tabakalı Ortamlarda Ayrılmalı Temas Problemlerinin Genel Çözümü**  
ADIYAMAN G., BİRİNCİ A., ÖNER E.  
XX. ULUSAL MEKANİK KONGRESİ, Bursa, Turkey, 5 - 08 September 2017
- XVI. **Frictionless contact problem for a graded layer-half plane structure under a rigid punch**  
ÖNER E., ADIYAMAN G., BİRİNCİ A.  
International Conference on Advances and Innovations in Engineering (ICAIE), Elazığ, Turkey, 10 - 12 May 2017, pp.735-741
- XVII. **Continuous and discontinuous contact problem of a functionally graded layer under gravity**  
ADIYAMAN G., ÖNER E., BİRİNCİ A.  
International Conference on Advances and Innovations in Engineering (ICAIE), Elazığ, Turkey, 10 - 12 May 2017, pp.707-711
- XVIII. **Discontinuous contact problem between a functionally graded layer and a homogeneous substrate**  
ÖNER E., ADIYAMAN G., BİRİNCİ A.  
International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 8 - 10 May 2017, pp.1
- XIX. **The Continuous and Discontinuous Contact Problem of a Functionally Graded Layer**  
ADIYAMAN G., BİRİNCİ A.  
III. International Conference on Computational and Experimental Science and Engineering (ICCESEN 2016), Antalya, Turkey, 19 - 24 October 2016, pp.185
- XX. **Continuous Contact Plane Problem between a Functionally Graded Layer and a Homogeneous Half-Plane**  
ÖNER E., ADIYAMAN G., BİRİNCİ A.  
3rd International Conference on Computational and Experimental Science and Engineering (ICCESEN 2016), Antalya, Turkey, 19 - 24 October 2016, pp.353
- XXI. **YARIM DÜZLEM ÜZERİNE OTURAN ELASTİK TABAKANIN SÜRTÜNMESİZ VE AYRILMALI TEMAS PROBLEMİ**  
KARABULUT P. M. , ADIYAMAN G., ÖNER E., BİRİNCİ A.  
19. Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 - 28 November 2015
- XXII. **Yarım Düzlem Üzerine Oturan Fonksiyonel Derecelendirilmiş Bir Tabakanın Eksenel Simetrik Temas Problemi**  
ADIYAMAN G., BİRİNCİ A., TURAN M., KAHYA V.  
19. Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 - 28 August 2015
- XXIII. **Yarım düzlem üzerine oturan (yapıştırılmış) fonksiyonel derecelendirilmiş bir tabakanın eksenel simetrik temas problemi**  
ADIYAMAN G., BİRİNCİ A., Turan M., KAHYA V.  
19. Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 - 28 August 2015, pp.16-25
- XXIV. **Tabakalı elastik ortamların dönele simetrik yükleme altında statik analizi**  
Turan M., KAHYA V., ADIYAMAN G., BİRİNCİ A.  
19. Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 - 28 August 2015, pp.978-989

## Scientific Refereeing

LATIN AMERICAN JOURNAL OF SOLIDS AND STRUCTURES , SCI Journal, April 2016

## Citations

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