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Personal Information

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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Katı Cisimlerin Mekaniği (YI), Turkey 1988 - 1995

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Katı Cisimlerin Mekaniği (YI), Turkey 1985 - 1987

Undergraduate, Anadolu University, Faculty Of Engineering, Department Of Cıvıl Engineering, Turkey 1979 - 1983

Foreign Languages

English

Research Areas

Mechanics of Solid Bodies, Structural Mechanics, Building Dynamics, Building Stability

Academic Titles / Tasks

Professor, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, 2017 - Continues

Associate Professor, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, 2006 - 2017

Assistant Professor, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, 1997 - 2006

Research Assistant PhD, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, 1995 - 1997

Research Assistant, Istanbul Technical University, İnşaat, İnşaat Mühendisliği, 1986 - 1995

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Forced vibration analysis of composite-geometrically exact elliptical cone helices via mixed FEM**
Aribas U. N., Ermis M., Kutlu A., Eratlı N., Omurtag M. H.
MECHANICS OF ADVANCED MATERIALS AND STRUCTURES, vol.29, no.10, pp.1456-1474, 2022 (SCI-Expanded)
- II. **The static and dynamic analyses of warping included composite exact conical helix by mixed FEM**
Aribaş Ü. N., Ermiş M., Eratlı N., Omurtag M. H.
COMPOSITES PART B-ENGINEERING, vol.160, pp.285-297, 2019 (SCI-Expanded)
- III. **Parametric analysis of viscoelastic hyperboloidal helical rod**
Ermiş M., Eratlı N., Argeso H., Kutlu A., Omurtag M. H.

- ADVANCES IN STRUCTURAL ENGINEERING, vol.19, no.9, pp.1420-1434, 2016 (SCI-Expanded)
- IV. **Dynamic analysis of helicoidal bars with non-circular cross-sections via mixed FEM**
 Eratlı N., Yılmaz M., Darılmaz K., Omurtag M. H.
 STRUCTURAL ENGINEERING AND MECHANICS, vol.57, no.2, pp.221-238, 2016 (SCI-Expanded)
- V. **Dynamic analysis of linear viscoelastic cylindrical and conical helicoidal rods using the mixed FEM**
 Eratlı N., Argeso H., Calim F. F., TEMEL B., Omurtag M. H.
 JOURNAL OF SOUND AND VIBRATION, vol.333, no.16, pp.3671-3690, 2014 (SCI-Expanded)
- VI. **Variational derivative for buckling loads of beams and frames**
 Eratlı N., GURSOY A.
 INTERNATIONAL APPLIED MECHANICS, vol.41, no.7, pp.825-830, 2005 (SCI-Expanded)
- VII. **Free vibration analysis of Reissner plates by mixed finite element**
 Eratlı N., AKOZ A.
 STRUCTURAL ENGINEERING AND MECHANICS, vol.13, no.3, pp.277-298, 2002 (SCI-Expanded)
- VIII. **Mixed finite element formulation for folded plates**
 Eratlı N., AKOZ A.
 STRUCTURAL ENGINEERING AND MECHANICS, vol.13, no.2, pp.155-170, 2002 (SCI-Expanded)
- IX. **A sectorial element based on Reissner plate theory**
 AKOZ A., Eratlı N.
 STRUCTURAL ENGINEERING AND MECHANICS, vol.9, no.6, pp.519-540, 2000 (SCI-Expanded)
- X. **The mixed finite element formulation for the thick plates on elastic foundations**
 Eratlı N., AKOZ A.
 COMPUTERS & STRUCTURES, vol.65, no.4, pp.515-529, 1997 (SCI-Expanded)
- XI. **The New Functional for Reissner Plates and its Application**
 Akoz A., Eratlı N.
 COMPUTERS AND STRUCTURES, no.44, pp.1139-1144, 1992 (SCI-Expanded)

Articles Published in Other Journals

- I. **Elastically Damped Transient Response of Axially FG Straight Beams**
 ARIBAŞ Ü. N., ERMİŞ M., KUTLU A., ERATLI N., OMURTAG M. H.
 International Journal of Theoretical and Applied Mechanics, vol.4, pp.19-25, 2019 (Peer-Reviewed Journal)
- II. **THE DYNAMIC ANALYSIS OF A LINEAR VISCOELASTIC PLANAR ELLIPTICAL BEAM**
 Ermiş M., Kutlu A., Eratlı N., Omurtag M. H.
 SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.9, no.2, pp.157-168, 2018 (ESCI)
- III. **Forced Vibration Analysis of Warping Considered Curved Composite Beams Resting on Viscoelastic Foundation**
 ARIBAŞ Ü. N., ERMİŞ M., KUTLU A., ERATLI N., OMURTAG M. H.
 GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, no.4, pp.1093-1105, 2018 (ESCI)
- IV. **Free vibration analysis of elastic cylindrical helix via a mixed finite element method**
 ERATLI N., KUTLU A.
 Int. J. of Civil and Structural Engineering-IJCSE, vol.2, no.1, pp.323-326, 2015 (Peer-Reviewed Journal)
- V. **FREE VIBRATION ANALYSIS OF HELICOIDAL BARS WITH THIN-WALLED CIRCULAR TUBE CROSS-SECTION VIA MIXED FINITE ELEMENT METHOD**
 Eratlı N., Ermiş M., Omurtag M. H.
 SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.33, no.2, pp.200-218, 2015 (ESCI)
- VI. **The effects of viscous bulk compressibility for noncylindrical helices**
 ERATLI N., ARGEŞO A. H., OMURTAG M. H.
 Int. J. of Civil and Structural Engineering-IJCSE, vol.2, no.2, pp.307-311, 2015 (Peer-Reviewed Journal)

- VII. **Dynamic behavior of the viscoelastic noncylindrical helices with a mixed finite element method**
Erath N., Kutlu A.
Int. J. of Structural Analysis and Design-IJSAD, vol.2, no.1, pp.110-113, 2015 (Peer-Reviewed Journal)
- VIII. **Free vibration analysis of circular, annular and annular sectorial plates**
Erath N.
ARI Bulletin of the Technical University of Istanbul, An Interdisciplinary Journal of Physical and Engineering Sciences, vol.53, no.1, pp.29-43, 2003 (Peer-Reviewed Journal)
- IX. **Reissner plak teorisi için sonlu eleman formülasyonu**
AKÖZ A. Y., Erath N.
TEKNIK DERGI, vol.12, no.3, pp.2465-2486, 2001 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Statik-Mukavemet**
AKÖZ A. Y., Erath N.
Beta Basım Yayım Dağıtım, İstanbul, 2011
- II. **Çözümlü Çubuk Sonlu Eleman Problemleri**
Omurtag M. H., Erath N.
Birsen Yayınevi, İstanbul, 2010
- III. **Cisimlerin Mukavemeti Problem Kitabı Cilt II**
MEHMET B., ALDEMİR Ü., HAYIR A., ERATLI N., KADIOĞLU F., ERGÜN H.
Beta, 2009
- IV. **Cisimlerin Mukavemeti Problem Kitabı Cilt I**
MEHMET B., ERATLI N., KADIOĞLU F.
Beta, 2009
- V. **Çözümlü Statik-Mukavemet Problemleri**
AKÖZ A. Y., Erath N., Kadioğlu F.
Beta Basım Yayım Dağıtım, İstanbul, 2005
- VI. **Çözümlü Dinamik Problemleri**
AKÖZ A. Y., Erath N.
Beta Basım Yayım Dağıtım, İstanbul, 2000

Refereed Congress / Symposium Publications in Proceedings

- I. **KOMPOZİT EĞRİSEL KİRİŞLERİN ÇARPILMA ETKİSİ GÖZETİLEN GERİLME DAĞILIMININ KARIŞIK SONLU ELEMANLARLA ANALİZİ**
ARIBAŞ Ü. N., ERMİŞ M., KUTLU A., ERATLI N., OMURTAG M. H.
21. Ulusal Mekanik Kongresi, Niğde, Turkey, 2 - 06 September 2019, pp.303-312
- II. **Forced Vibration Analysis of Axially FG Straight Beams by Mixed FEM**
ERMİŞ M., ARIBAŞ Ü. N., KUTLU A., ERATLI N., OMURTAG M. H.
IV. Eurasian Conference on Civil and Environmental Engineering, Turkey, 17 - 18 June 2019
- III. **Elastically Damped Transient Response of Axially FG Straight Beams**
ARIBAŞ Ü. N., ERMİŞ M., KUTLU A., ERATLI N., OMURTAG M. H.
12th International Conference on FINITE DIFFERENCES, FINITE ELEMENTS, FINITE VOLUMES, BOUNDARY ELEMENTS, Roma, Italy, 25 - 27 May 2019, pp.19-25
- IV. **Free Vibration Analysis of Axially FG Straight Beam by Mixed FEM**
ERMİŞ M., ARIBAŞ Ü. N., KUTLU A., ERATLI N., OMURTAG M. H.
International Civil Engineering and Architecture Conference 2019/ICEARC'19, Trabzon, Turkey, 17 - 20 April 2019
- V. **The Warping Effect on the Structural Response of Sandwich Exact Conical Rods**

ARIBAŞ Ü. N., ERMIŞ M., KUTLU A., ERATLI N., OMURTAG M. H.

International Civil Engineering and Architecture Conference 2019/ICEARC'19, Trabzon, Turkey, 17 - 20 April 2019

- VI. **The Comparison of Exact and Approximate Geometry of Conical Helix Over Static and Dynamic Analysis**
Ermiş M., Ayhan B., Kutlu A., Eratlı N., Omurtag M. H.
3th International Congress on Advances in Civil Engineering - ACE 2018, İzmir, Turkey, 12 - 14 September 2018
- VII. **Free Vibration Analysis of a Planar Elliptical Beam**
ERMİŞ M., ARIBAŞ Ü. N., ERATLI N., OMURTAG M. H.
16th European Conference on Earthquake Engineering, Thessaloniki, Greece, 18 - 21 June 2018
- VIII. **Forced Vibration Analysis of a Planar Elliptical Beam**
ERMİŞ M., ARIBAŞ Ü. N., ERATLI N., OMURTAG M. H.
16th European Conference on Earthquake Engineering/16ECEE, Selanik, Greece, 18 - 21 June 2018
- IX. **Viskoelastik zemine oturan eğri eksenli kompozit çubukların dinamik analizi**
Arıbaş Ü. N., Ermiş M., Kutlu A., Eratlı N., Omurtag M. H.
20. Ulusal Mekanik Kongresi, Bursa, Turkey, 5 - 09 September 2017, pp.118-129
- X. **Viskoelastik eliptik düzlem çubukların dinamik analizi**
Ermiş M., Kutlu A., Eratlı N., Omurtag M. H.
20. Ulusal Mekanik Kongresi, Bursa, Turkey, 5 - 09 September 2017, pp.147-156
- XI. **Forced Vibration of a Planar Curved Beam on Pasternak Foundation**
Kutlu A., Ermiş M., Eratlı N., Omurtag M. H.
ICSCE 2017:19th International Conference on Structural and Construction Engineering, İstanbul, Turkey, 27 - 28 July 2017, pp.2640-2644
- XII. **Static and Free Vibration Analysis of Planar Curved Composite Beams on Elastic Foundation**
Arıbaş Ü. N., Yılmaz M., Eratlı N., Omurtag M. H.
8th International Conference on Theoretical and Applied Mechanics (TAM '17), Brasov, Romania, 27 - 29 June 2017, vol.2, pp.35-42
- XIII. **Static and Free Vibration Analysis of Composite Straight Beams on the Pasternak Foundation**
Ermiş M., Arıbaş Ü. N., Eratlı N., Omurtag M. H.
10th International Conference on Finite Differences, Finite Elements, Finite Volumes, Boundary Elements (F-and-B '17), Barselona, Spain, 10 - 12 May 2017, vol.12, pp.113-122
- XIV. **Static and Dynamic Analysis of Hyperboloidal Helix Having Thin Walled Open and Close Sections**
Ermiş M., Yılmaz M., Eratlı N., Omurtag M. H.
18th International Conference on Civil and Environmental Engineering - ICCEE 2016, Tokyo, Japan, 5 - 06 September 2016, vol.10, no.9, pp.1073-1077
- XV. **Free Vibration Analysis of Conical Helicoidal Rods Having Elliptical Cross Sections Positioned in Different Orientation**
Ermiş M., Kutlu A., Eratlı N., Omurtag M. H.
18th International Conference on Civil and Environmental Engineering, Tokyo, Japan, 5 - 06 September 2016, vol.10, no.9, pp.1068-1072
- XVI. **The effect of viscoelastic material parameter regarding standard model on the conical helicoidal rod**
Ermiş M., Kutlu A., Eratlı N., Omurtag M. H.
The 2016 World Congress on Advances in Civil, Environmental, and Materials Research - ACEM16/Structures16, Jeju Adası, South Korea, 28 August - 01 September 2016, pp.1-9
- XVII. **The 2016 World Congress on Advances in Civil, Environmental, and Materials Research - ACEM16/Structures16**
Ermiş M., Yılmaz M., Eratlı N., Omurtag M. H.
Static and dynamic analysis of non-circular helicoidal bars with cruciform cross-sections via mixed FEM, Jeju Adası, South Korea, 28 August - 01 September 2016, pp.1-10
- XVIII. **Static and dynamic analysis of non circular helicoidal bars with cruciform cross sections via mixed FEM**
ERMİŞ M., YILMAZ M., ERATLI N., OMURTAG M. H.

The 2016 World Congress on Advances in Civil, Environmental, and Materials Research-ACEM16, 28 August - 01 September 2016

- XIX. **Free vibration analysis of moderately thick, sandwich, circular beams**
Arıbaşı Ü. N., Eratlı N., Omurtag M. H.
World Congress on Engineering 2016, Londra, United Kingdom, 29 June - 01 July 2016, pp.1127-1130
- XX. **The Effect of the Impulsive Dynamic Loads on the Barrel Type Helicoidal Bars**
Ermış M., Eratlı N., Omurtag M. H.
3rd Polish Congress of Mechanics & 21st Computer Methods in Mechanics - PCM-CMM- 2015, Gdansk, Poland, 8 - 11 September 2015, pp.887-888
- XXI. **İnce ve kalın cidarlı kutu kesitli helislerin karışık SEM ile analizi**
Ermış M., Eratlı N., Omurtag M. H.
18. Ulusal Mekanik Kongresi, Manisa, Turkey, 26 August 2016 - 30 August 2015, pp.247-256
- XXII. **The effects of the viscosity parameters on the barrel type helical rod**
Ermış M., Eratlı N., Argeşo H., Kutlu A., Omurtag M. H.
2015 World Congress on Advances in Civil, Environmental and Materials Research- ACEM15, Incheon, South Korea, 25 - 29 August 2015, pp.1-8
- XXIII. **The dynamic responses of a viscoelastic conical helical rod**
Ermış M., Eratlı N., Omurtag M. H.
2015 World Congress on Advances in Civil, Environmental and Materials Research- ACEM15, Incheon, South Korea, 25 - 29 August 2015, pp.1-9
- XXIV. **Fıçı Tipi Doğrusal Viskoelastik Helislerin Dinamik Davranışı**
Eratlı N., Ermış M., Argeşo H., Kutlu A., Omurtag M. H.
19. Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 - 28 August 2015, pp.445-454
- XXV. **Konik tipi helislerin farklı yüklemeler altındaki dinamik davranışı**
ERATLI N., ERMİŞ M., ARGEŞO A. H., KUTLU A., OMURTAG M. H.
XIX. Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 - 28 August 2015
- XXVI. **Konik Tipi Viskoelastik Helislerin Farklı Yüklemeler Altındaki Dinamik Davranışı**
Ermış M., Eratlı N., Argeşo H., Kutlu A., Omurtag M. H.
19. Ulusal Mekanik Kongresi, Trabzon, Turkey, 24 - 28 August 2015, pp.472-482
- XXVII. **The Effects of Viscous Bulk Compressibility for Cantilevered Cylindrical Helices**
Ermış M., Argeşo H., Eratlı N., Omurtag M. H.
International Conference on Civil and Environmental Engineering-ICOCEE, Nevşehir, Turkey, 20 - 23 May 2015, pp.1-8
- XXVIII. **The Effects of Viscous Bulk Compressibility for Noncylindrical Helices**
Eratlı N., Argeşo A. H., Omurtag M. H.
Proc. of the 2nd International Conference on Advances in Civil, Structural and Construction Engineering-CSCE, Roma, Italy, 18 - 19 April 2015, pp.1-5
- XXIX. **The Influence of the Rotary Inertia on the Dynamic Behavior of Viscoelastic Non-cylindrical Helicoidal Bars**
Ermış M., Eratlı N., Omurtag M. H.
International Conference of Computational Methods in Sciences and Engineering (ICCMSE), Athens, Greece, 20 - 23 March 2015, vol.1702
- XXX. **Free vibration analysis of elastic cylindrical helix via a mixed finite element method**
ERATLI N., KUTLU A.
Second International Conference On Advances in Civil, Structural and Environmental Engineering, Zürich, Switzerland, 25 - 26 October 2014
- XXXI. **Free vibration analysis of elastic cylindrical helix via the mixed finite element method**
Eratlı N., Kutlu A.
Proc. of the 2nd International Conference on Advances in Civil, Structural and Environmental Engineering-ACSEE, Zürich, Switzerland, 25 - 26 October 2014, pp.57-60
- XXXII. **Dynamic behavior of the viscoelastic non-cylindrical helices with a mixed finite element formulation**

- Eratlı N., Kutlu A.
Proc. of the 2nd International Conference on Advances in Civil, Structural and Environmental Engineering-ACSEE, Zürich, Switzerland, 25 - 26 October 2014, pp.61-64
- XXXIII. **Quasi-static and dynamic analyses of viscoelastic conical helixes with a squared box cross-section**
Ermış M., Eratlı N., Çalın F. F., Argeşo H., Omurtag M. H.
11th International Congress on Advances in Civil Engineering - ACE 2014, İstanbul, Turkey, 21 - 25 October 2014, pp.1-6
- XXXIV. **Static and dynamic analysis of elastic cylindrical helixes with arbitrary cross-sections by using the mixed finite element method**
Ermış M., Eratlı N., Omurtag M. H.
11th International Congress on Advances in Civil Engineering - ACE 2014, İstanbul, Turkey, 21 - 25 October 2014, pp.1-6
- XXXV. **Dynamic analysis of viscoelastic cylindrical helixes subjected to impulsive-sinusoidal load by using the finite element method**
Argeşo A. H., Çalın F. F., Eratlı N., Omurtag M. H.
10th International Congress on Advances in Civil Engineering, Ankara, Turkey, 17 - 19 October 2012, pp.1-10
- XXXVI. **Analysis of viscoelastic conical helixes via mixed finite element method**
Argeşo A. H., Eratlı N., Çalın F. F., Omurtag M. H.
International Symposium on Advances in Applied Mechanics and Modern Information Technology, Baku, Azerbaijan, 22 - 23 September 2011, pp.102-106
- XXXVII. **Konik Viskoelastik Helisin Değişik Parametreler için SE Analizi**
Eratlı N., Çalın F. F., Arıbaş Ü. N., Omurtag M. H.
XVII. Ulusal Mekanik Kongresi, Elazığ, Turkey, 5 - 09 September 2011, pp.324-333
- XXXVIII. **Silindirik Helislerin Farklı Viskoelastik Modellemelerinin SE Analizi**
Argeşo A. H., Eratlı N., Darılmaz K., Omurtag M. H.
XVII. Ulusal Mekanik Kongresi, Elazığ, Turkey, 5 - 09 September 2011, pp.112-120
- XXXIX. **Dairesel Ortotrop Plakların Dinamik Analizi**
Şamdan F., Eratlı N.
XVI. Ulusal Mekanik Kongresi, Kayseri, Turkey, 22 - 26 June 2009, pp.1021-1030
- XL. **Ortotrop Kalın Plakların Statik ve Dinamik Analizi**
Eratlı N., Çalışkan H.
XV. Ulusal Mekanik Kongresi, Isparta, Turkey, 3 - 07 September 2007, pp.383-393
- XLI. **Takviyeli Plakların Dinamik Analizi**
Gül M., Eratlı N.
XIII. Ulusal Mekanik Kongresi, Gaziantep, Turkey, 8 - 12 September 2003, pp.399-408
- XLII. **Karman plaklarının karışık sonlu eleman formülasyonu**
ERATLI N., ÖZÜTOK A., AKÖZ A. Y., KADIOĞLU F.
XII. ULUSAL MEKANİK KONGRESİ, Konya, Turkey, 4 - 10 September 2001, pp.375-475
- XLIII. **Kármán Plaklarının Sonlu Eleman Formülasyonu**
Eratlı N., Özütok A., AKÖZ A. Y., Kadioğlu F.
XII. Ulusal Mekanik Kongresi, Konya, Turkey, 10 - 14 September 2001, pp.375-384
- XLIV. **Free Vibration Analysis of Reissner Plates on Elastic Supports**
Eratlı N., AKÖZ A. Y.
Proc. 4th Int. Conference on Vibration Problems, Kolkata, India, 27 - 30 November 1999, pp.257-269
- XLV. **Sektörel Kalın Plakların Dinamik Analizi**
Eratlı N.
XI. Ulusal Mekanik Kongresi, Bolu, Turkey, 6 - 10 September 1999, pp.319-330
- XLVI. **Takviyeli Kalın Plakların Sonlu Eleman Formülasyonu**
Eratlı N., AKÖZ A. Y., Sarı S.
XI. Ulusal Mekanik Kongresi, Bolu, Turkey, 6 - 10 September 1999, pp.331-340
- XLVII. **Dairesel Kalın Plaklar için Varyasyonel Yolla Fonksiyonel Bulunması ve Karışık Sonlu Eleman**

Formülasyonu

AKÖZ A. Y., Eratlı N.

X. Ulusal Mekanik Kongresi, İstanbul, Turkey, 15 - 19 September 1997, pp.83-92

XLVIII. Kalın Plak İçin Fonksiyonel ve Uygulamaları

Eratlı N., AKÖZ A. Y.

VII. Ulusal Mekanik Kongresi, Antalya, Turkey, 2 - 06 September 1991, pp.633-643

Supported Projects

Eratlı N., Arıbaş Ü. N., Omurtag M. H., Ermiş M., Project Supported by Higher Education Institutions, Ortotrop üç parametrelili Pasternak zemine oturan iki ve üç boyutlu tabakalı kompozit çubukların zorlanmış titreşim analizi, 2017 - 2019

Eratlı N., Project Supported by Higher Education Institutions, Silindirik Olmayan Viskoelastik Helislerin Sonlu Eleman Yöntemiyle Dinamik Analizi, 2014 - 2018

Eratlı N., Project Supported by Higher Education Institutions, Eksen Geometrisi Silindirik ve Silindirik Olmayan Viskoelastik Helislerin Sonlu Elemanlarla Dinamik Analizi, 2012 - 2014

Omurtag M. H., Eratlı N., TUBITAK Project, Değişken Kesitli ve eksenel geometrisi Silindirik Olmayan Visko Elastik Helislerin Karışık Sonlu Eleman Metodu İle Analiz, 2011 - 2014

Scientific Research / Working Group Memberships

Hesaplamalı Mekanik (Computational Mechanics), İSTANBUL TEKNİK ÜNİVERSİTESİ, Turkey, <https://calismagruplari.itu.edu.tr/>, 2015 - Continues

Metrics

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