

## Prof. VEBİL YILDIRIM

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### International Researcher IDs

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### Education Information

Doctorate, Cukurova University, Müh. Mim. Fak., Makina Müh., Turkey 1986 - 1990

Postgraduate, Cukurova University, Müh. Mim. Fak., Makina Müh., Turkey 1984 - 1986

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Investigation of static, dynamic and buckling behavior of the helical systems by the transfer and stiffness matrix methods, Ph.D. Thesis, Cukurova University, Makina Müh Bölümü, Mekank, 1990

Postgraduate, Çift Radyal Geçişli Vantilatör Karakteristiklerinin Deneysel Olarak İncelenmesi, Cukurova University, Makina Mühendisliği, Enerji, 1986

### Research Areas

Mechanical Engineering, Mechanical, Solid Mechanics, Engineering and Technology

### Academic Titles / Tasks

Professor, Cukurova University, Mühendislik Fakültesi, Makina Müh., 2000 - Continues

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

1. **The best grading pattern selection for the axisymmetric elastic response of pressurized inhomogeneous annular structures (sphere/cylinder/annulus) including rotation**  
YILDIRIM V.

JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.42, no.2, 2020 (SCI-Expanded)

- II. **Numerical/analytical solutions to the elastic response of arbitrarily functionally graded polar orthotropic rotating discs**  
YILDIRIM V.  
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.40, no.6, 2018 (SCI-Expanded)
- III. **A Parametric Study on the Centrifugal Force-Induced Stress and Displacements in Power-Law Graded Hyperbolic Discs**  
YILDIRIM V.  
LATIN AMERICAN JOURNAL OF SOLIDS AND STRUCTURES, vol.15, no.4, 2018 (SCI-Expanded)
- IV. **Exact determination of the global tip deflection of both close-coiled and open-coiled cylindrical helical compression springs having arbitrary doubly-symmetric cross-sections**  
YILDIRIM V.  
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, vol.115, pp.280-298, 2016 (SCI-Expanded)
- V. **Axial Static Load Dependence Free Vibration Analysis of Helical Springs Based on the Theory of Spatially Curved Bars**  
YILDIRIM V.  
LATIN AMERICAN JOURNAL OF SOLIDS AND STRUCTURES, vol.13, no.15, pp.2552-2575, 2016 (SCI-Expanded)
- VI. **Free vibration/buckling analyses of noncylindrical initially compressed helical composite springs**  
Kacar I, YILDIRIM V.  
MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES, vol.44, no.4, pp.340-353, 2016 (SCI-Expanded)
- VII. **On the linearized disturbance dynamic equations for buckling and free vibration of cylindrical helical coil springs under combined compression and torsion**  
Yildirim V.  
MECCANICA, vol.47, no.4, pp.1015-1033, 2012 (SCI-Expanded)
- VIII. **Application of Artificial Neural Networks in the Prediction of Critical Buckling Loads of Helical Compression Springs**  
İBRİKÇİ T., Sacma S., YILDIRIM V., KOCA T.  
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol.56, no.6, pp.409-417, 2010 (SCI-Expanded)
- IX. **Application of artificial neural networks to the prediction of critical buckling loads of helical compression springs**  
Ibrikçi T., Saçma S., Yildirim V., Koca T.  
Strojniški vestnik - Journal of Mechanical Engineering, vol.56, no.6, pp.409-417, 2010 (SCI-Expanded)
- X. **A parametric study on the natural frequencies of unidirectional composite conical springs**  
Yildirim V.  
COMMUNICATIONS IN NUMERICAL METHODS IN ENGINEERING, vol.20, no.3, pp.207-227, 2004 (SCI-Expanded)
- XI. **Expressions for predicting fundamental natural frequencies of non-cylindrical helical springs**  
Yildirim V.  
JOURNAL OF SOUND AND VIBRATION, vol.252, no.3, pp.479-491, 2002 (SCI-Expanded)
- XII. **Free vibration characteristics of composite barrel and hyperboloidal coil springs**  
Yildirim V.  
MECHANICS OF COMPOSITE MATERIALS AND STRUCTURES, vol.8, no.3, pp.205-217, 2001 (SCI-Expanded)
- XIII. **Free vibration of uniaxial composite cylindrical helical springs with circular section**  
Yildirim V.  
JOURNAL OF SOUND AND VIBRATION, vol.239, no.2, pp.321-333, 2001 (SCI-Expanded)
- XIV. **Common effects of the rotary inertia and shear deformation on the out-of-plane natural frequencies of composite circular bars**  
Yildirim V.  
COMPOSITES PART B-ENGINEERING, vol.32, no.8, pp.687-695, 2001 (SCI-Expanded)
- XV. **Effect of the longitudinal to transverse moduli ratio on the in-plane natural frequencies of**

**symmetric cross-ply laminated beams by the stiffness method**

Yildirim V.

COMPOSITE STRUCTURES, vol.50, no.3, pp.319-326, 2000 (SCI-Expanded)

- XVI. **Investigation of the rotary inertia and shear deformation effects on the out-of-plane bending and torsional natural frequencies of laminated beams**  
Yildirim V., KIRAL E.  
COMPOSITE STRUCTURES, vol.49, no.3, pp.313-320, 2000 (SCI-Expanded)
- XVII. **Linear free vibration analysis of cross-ply laminated cylindrical helical springs**  
Yildirim V., SANCAKTAR E.  
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, vol.42, no.6, pp.1153-1169, 2000 (SCI-Expanded)
- XVIII. **Out-of-plane bending and torsional resonance frequencies and mode shapes of symmetric cross-ply laminated beams including shear deformation and rotary inertia effects**  
Yildirim V.  
COMMUNICATIONS IN NUMERICAL METHODS IN ENGINEERING, vol.16, no.1, pp.67-74, 2000 (SCI-Expanded)
- XIX. **The effect of the longitudinal to transverse moduli ratio on the natural frequencies of symmetric cross-ply laminated cylindrical helical springs**  
Yildirim V., SANCAKTAR E., KIRAL E.  
JOURNAL OF MECHANICAL DESIGN, vol.121, no.4, pp.634-639, 1999 (SCI-Expanded)
- XX. **A numerical study on the free vibration of symmetric cross-ply laminated cylindrical helical springs**  
Yildirim V.  
JOURNAL OF APPLIED MECHANICS-TRANSACTIONS OF THE ASME, vol.66, no.4, pp.1040-1043, 1999 (SCI-Expanded)
- XXI. **Free vibration analysis of symmetric cross-ply laminated composite beams with the help of the transfer matrix approach**  
Yildirim V., SANCAKTAR E., KIRAL E.  
COMMUNICATIONS IN NUMERICAL METHODS IN ENGINEERING, vol.15, no.9, pp.651-660, 1999 (SCI-Expanded)
- XXII. **An efficient numerical method for predicting the natural frequencies of cylindrical helical springs**  
Yildirim V.  
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, vol.41, no.8, pp.919-939, 1999 (SCI-Expanded)
- XXIII. **Rotary inertia, axial and shear deformation effects on the in-plane natural frequencies of symmetric cross-ply laminated circular arches**  
Yildirim V.  
JOURNAL OF SOUND AND VIBRATION, vol.224, no.4, pp.575-589, 1999 (SCI-Expanded)
- XXIV. **Governing equations of initially twisted elastic space rods made of laminated composite materials**  
Yildirim V.  
INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE, vol.37, no.8, pp.1007-1035, 1999 (SCI-Expanded)
- XXV. **In-plane free vibration of symmetric cross-ply laminated circular bars**  
Yildirim V.  
JOURNAL OF ENGINEERING MECHANICS-ASCE, vol.125, no.6, pp.630-636, 1999 (SCI-Expanded)
- XXVI. **Comparison of the in-plane natural frequencies of symmetric cross-ply laminated beams based on the Bernoulli-Euler and Timoshenko beam theories**  
Yildirim V., SANCAKTAR E., KIRAL E.  
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- XXVII. **A parametric study on the free vibration of noncylindrical helical springs**  
Yildirim V.  
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- XXVIII. **In-plane and out-of-plane free vibration analysis of Archimedes-type spiral springs**  
Yildirim V.  
JOURNAL OF APPLIED MECHANICS-TRANSACTIONS OF THE ASME, vol.64, no.3, pp.557-561, 1997 (SCI-Expanded)
- XXIX. **Natural frequencies of helical springs of arbitrary shape**  
Yildirim V., INCE N.

- JOURNAL OF SOUND AND VIBRATION, vol.204, no.2, pp.311-329, 1997 (SCI-Expanded)
- XXX. **Free vibration analysis of non-cylindrical coil springs by combined use of the transfer matrix and the complementary functions methods**  
Yildirim V.  
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- XXXI. **A computer program for the free vibration analysis of elastic arcs**  
Yildirim V.  
COMPUTERS & STRUCTURES, vol.62, no.3, pp.475-485, 1997 (SCI-Expanded)
- XXXII. **Investigation of parameters affecting free vibration frequency of helical springs**  
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- XXXIII. **The Complementary Functions Method for the Element Stiffness Matrix of Arbitrary Spatial Bars of Helicoidal Axes**  
Yıldırım V.  
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING, vol.38, no.6, pp.1031-1056, 1995 (SCI-Expanded)
- XXXIV. **A NEW METHOD FOR THE ELEMENT STIFFNESS MATRIX OF ARBITRARY PLANAR BARS**  
HAKTANIR V.  
COMPUTERS & STRUCTURES, vol.52, no.4, pp.679-691, 1994 (SCI-Expanded)
- XXXV. **STATICAL ANALYSIS OF ELASTICALLY AND CONTINUOUSLY SUPPORTED HELICOIDAL STRUCTURES BY THE TRANSFER AND STIFFNESS MATRIX-METHODS**  
HAKTANIR V., KIRAL E.  
COMPUTERS & STRUCTURES, vol.49, no.4, pp.663-677, 1993 (SCI-Expanded)
- XXXVI. **Tamamlayıcı Fonksiyonlar Yönteminin Düzlemsel Çubukların Statiğine Doğrudan Uygulanması**  
YILDIRIM V., KIRAL E.  
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.6, no.2, pp.155-170, 1991 (SCI-Expanded)
- XXXVII. **Helisel Yaylarda Başlangıç Şartları Verilen Serbest Titreşim Halinin Normal Mod Yöntemi İle İncelenmesi**  
YILDIRIM V., KIRAL E.  
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.5, no.1, pp.5-19, 1990 (SCI-Expanded)
- XXXVIII. **Çift Radyal Geçişli Vantilatör Karakteristiklerinin Deneysel Olarak İncelenmesi**  
Yılmaz T., YILDIRIM V.  
Turkish Journal of Engineering and Environmental Sciences, vol.10, no.3, pp.223-234, 1986 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Numerical Elastic Analysis of Functionally Graded (FG) Polar Orthotropic and Exponentially Varying-Thickness Rotating Disks via Combined Complementary Functions and the Transfer Matrix Methods**  
Yıldırım V.  
International Journal of Engineering & Applied Sciences (IJEAS), vol.14, no.1, pp.15-39, 2022 (Peer-Reviewed Journal)
- II. **Buckling Analysis of Rectangular Beams Having Ceramic Liners at Its Top and Bottom Surfaces with the help of the Exact Transfer Matrix**  
YILDIRIM V.  
International Journal Of Engineering & Applied Sciences, vol.13, no.1, pp.17-35, 2021 (Peer-Reviewed Journal)
- III. **Exact Axisymmetric Thermal Analysis of Functionally Graded Disks with Continuously Hyperbolically Varying Thickness**  
YILDIRIM V.

International Journal of Engineering Technologies, vol.6, no.1, pp.1-12, 2020 (Peer-Reviewed Journal)

- IV. **Centrifugal Force-Induced Elastic Field for a Stress-Free Annulus Made of Functionally Graded Polar Orthotropic Material from Circular Plates to Rings**  
YILDIRIM V.  
Athens Journal of Sciences, vol.6, no.4, pp.231-252, 2019 (Peer-Reviewed Journal)
- V. **KALIN CİDARLI İÇİ BOŞ SİLİNDİRLERİN DOĞAL FREKANSLARININ (DIŞ/İÇ) ÇAP ORANI VE SINIR ŞARTLARI İLE DEĞİŞİMİ**  
YILDIRIM V.  
GIBD Dergi / İTÜ, vol.15, pp.3-12, 2019 (Peer-Reviewed Journal)
- VI. **Thermomechanical Characteristics of a Functionally Graded Mounted Uniform Disc with/without Rigid Casing**  
YILDIRIM V.  
JOURNAL OF AEROSPACE TECHNOLOGY AND MANAGEMENT, vol.11, 2019 (ESCI)
- VII. **Exact radial free vibration frequencies of a thick-walled sphere made of an isotropic and homogeneous material - A case study with a carbon nanofiller reinforced aluminum hollow sphere**  
YILDIRIM V.  
Res. Eng. Struct. Mat, vol.5, no.1, pp.13-32, 2019 (Peer-Reviewed Journal)
- VIII. **Exact Thermomechanical Characteristics of a Pressurized Rotating Circular Annulus or a Disc Made of Functionally Graded (FG) Hypothetical and Physical Materials**  
YILDIRIM V.  
Jordan Journal of Mechanical and Industrial Engineering (JJMIE), vol.12, no.3, pp.215-229, 2018 (Scopus)
- IX. **EXACT THERMOMECHANICAL ANALYSIS OF FUNCTIONALLY GRADED (FG) THICK-WALLED SPHERES**  
YILDIRIM V.  
Mechanics and Mechanical Engineering, vol.22, no.4, pp.1197-1221, 2018 (Scopus)
- X. **A closed-form buckling formula for open-coiled and properly supported circular-bar helical springs**  
YILDIRIM V.  
Strojnický Casopis, vol.68, no.3, pp.33-48, 2018 (Scopus)
- XI. **The Complementary Functions Method Solution to the Functionally Graded Polar Orthotropic Rotating Hyperbolic Disks with Both Radially and Circumferentially Aligned Fibers**  
YILDIRIM V.  
International Journal of Engineering & Applied Sciences (IJEAS), vol.10, no.4, pp.276-290, 2018 (Peer-Reviewed Journal)
- XII. **Exact Thermomechanical Characteristics of a Pressurized Rotating Circular Annulus or a Disc Made of Functionally Graded (FG) Hypothetical and Physical Materials**  
YILDIRIM V.  
JORDAN JOURNAL OF MECHANICAL AND INDUSTRIAL ENGINEERING, vol.12, no.3, pp.215-229, 2018 (ESCI)
- XIII. **Exact Longitudinal Natural Frequencies of Single-Walled Carbon Nanotubes via Eringen's Nonlocal Theory and the Transfer Matrix Method**  
YILDIRIM V.  
Journal of Nanoscience and Nanoengineering, vol.4, no.3, pp.23-33, 2018 (Peer-Reviewed Journal)
- XIV. **Closed-Form Formulas for Hyperbolically Tapered Rotating Disks Made of Traditional Materials under Combined Thermal and Mechanical Loads**  
YILDIRIM V.  
International Journal of Engineering & Applied Sciences (IJEAS), vol.10, no.2, pp.73-92, 2018 (Peer-Reviewed Journal)
- XV. **Exact Radial Free Vibration Frequencies of Power-Law Graded Spheres**  
YILDIRIM V.  
JOURNAL OF APPLIED AND COMPUTATIONAL MECHANICS, vol.4, no.3, pp.175-186, 2018 (ESCI)
- XVI. **Several Stress Resultant and Deflection Formulas for Euler-Bernoulli Beams under Concentrated and Generalized Power/Sinusoidal Distributed Loads**  
YILDIRIM V.

- International Journal Of Engineering & Applied Sciences, vol.10, no.2, pp.35-63, 2018 (Peer-Reviewed Journal)
- XVII. **Numerical Elasticity Solution for Continuously Tapered and Arbitrarily Functionally Graded (FG) Rotating Disks via the Transfer Matrix Approach**  
YILDIRIM V.  
International Journal of Mathematics and Computational Science, vol.4, no.2, pp.48-73, 2018 (Peer-Reviewed Journal)
- XVIII. **Unified Exact Solutions to the Hyperbolically Tapered Pressurized/Rotating Disks Made of Nonhomogeneous Isotropic/Orthotropic Materials**  
YILDIRIM V.  
International Journal of Advanced Materials Research, vol.4, no.1, pp.1-23, 2018 (Peer-Reviewed Journal)
- XIX. **The Complementary Functions Method (CFM) Solution to the Elastic Analysis of Polar Orthotropic Rotating Discs**  
YILDIRIM V.  
JOURNAL OF APPLIED AND COMPUTATIONAL MECHANICS, vol.4, no.3, pp.216-230, 2018 (ESCI)
- XX. **Exact In-Plane Natural Frequencies in Purely Radial Modes and Corresponding Critical Speeds of Functionally Graded (FG) Non-Uniform Disks**  
YILDIRIM V.  
American Journal of Modern Physics and Application, vol.5, no.1, pp.9-23, 2018 (Peer-Reviewed Journal)
- XXI. **SOME CLOSED-FORM BENDING FORMULAS FOR ELASTICALLY RESTRAINED EULER-BERNOULLI BEAMS UNDER POINT AND UNIFORMLY DISTRIBUTED LOADS**  
Yildirim V.  
JOURNAL OF APPLIED MATHEMATICS AND COMPUTATIONAL MECHANICS, vol.17, no.3, pp.97-109, 2018 (ESCI)
- XXII. **Exact Radial Natural Frequencies of Functionally Graded Hollow Long Cylinders**  
YILDIRIM V.  
International Journal Of Engineering & Applied Sciences, vol.9, no.4, pp.28-41, 2017 (Peer-Reviewed Journal)
- XXIII. **Effects of Inhomogeneity and Thickness Parameters on the Elastic Response of a Pressurized Hyperbolic Annulus/Disc Made of Functionally Graded Material**  
YILDIRIM V.  
International Journal of Engineering & Applied Sciences, vol.9, no.3, pp.36-50, 2017 (Peer-Reviewed Journal)
- XXIV. **Exact Thermal Analysis of Functionally Graded Cylindrical and Spherical Vessels**  
YILDIRIM V.  
International Journal of Engineering & Applied Sciences, vol.9, no.2, pp.112-126, 2017 (Peer-Reviewed Journal)
- XXV. **Heat-Induced, Pressure-Induced and Centrifugal-Force-Induced Exact Axisymmetric Thermo-Mechanical Analyses in a Thick-Walled Spherical Vessel, an Infinite Cylindrical Vessel, and a Uniform Disk Made of an Isotropic and Homogeneous Material**  
YILDIRIM V.  
International Journal of Engineering & Applied Sciences, vol.9, no.2, pp.66-87, 2017 (Peer-Reviewed Journal)
- XXVI. **Direct application of the Complementary Functions Method (CFM) to the static analysis of rotating disks with both parabolic-varying thickness profile and functionally graded (FG) material**  
BOĞA C., YILDIRIM V.  
Research on Engineering Structures and Materials (RESM), vol.3, no.1, pp.11-25, 2017 (Peer-Reviewed Journal)
- XXVII. **Application of the Complementary Functions Method to an Accurate Elasticity Solution for the Radially Functionally Graded FG Rotating Disks with Continuously Variable Thickness and Density**  
BOĞA C., YILDIRIM V.  
Solid State Phenomena, vol.251, pp.100-105, 2016 (Scopus)
- XXVIII. **Closed-Form Elasticity Solutions to Uniform Rotating Discs Made of A Radially Functionally Graded Material**  
YILDIRIM V., BOĞA C.  
International Journal of Innovative Research in Science, Engineering and Technology, vol.5, no.12, pp.80-91, 2016 (Peer-Reviewed Journal)
- XXIX. **Closed-Form Elasticity Solutions to Uniform Rotating Discs Made of A Radially Functionally Graded**

## **Material Functionally Graded Material**

YILDIRIM V., BOĞA C.

International Journal of Innovative Research in Science, Engineering and Technology, vol.5, no.12, pp.80-91, 2016 (Peer-Reviewed Journal)

- XXX. **Analytic Solutions To Power-Law Graded Hyperbolic Rotating Discs Subjected To Different Boundary Conditions**  
YILDIRIM V.  
International Journal Of Engineering & Applied Sciences, vol.8, no.1, pp.38-52, 2016 (Peer-Reviewed Journal)
- XXXI. **ESTIMATION OF THE BUCKLING LOADS OF HELICAL COIL SPRINGS WITH THE HELP OF THE NEURAL NETWORKS**  
Sacma S., YILDIRIM V.  
Ç.Ü. Fen Bilimleri Dergisi, vol.27, no.3, pp.86-93, 2012 (Peer-Reviewed Journal)
- XXXII. **THREE DIMENSIONAL VIBRATION ANALYSIS OF LIQUID-FILLED PIPING SYSTEMS**  
Özbay A., YILDIRIM V.  
Ç.Ü. Fen Bilimleri Enstitüsü Dergisi, vol.22, no.1, pp.189-198, 2010 (Peer-Reviewed Journal)
- XXXIII. **Numerical Buckling Analysis of Cylindrical Helical Coil Springs in a Dynamic Manner**  
YILDIRIM V.  
International Journal of Engineering & Applied Sciences, vol.1, no.1, pp.20-32, 2009 (Peer-Reviewed Journal)
- XXXIV. **Influence of the Longitudinal to Transverse Moduli Ratio on the Resonance Frequencies of Symmetric Cross-Ply Laminated Beams Undergoing Out-of-Plane Vibrations**  
YILDIRIM V.  
JOURNAL OF THE MECHANICAL BEHAVIOR OF MATERIALS, vol.12, no.4, pp.212-224, 2001 (Scopus)
- XXXV. **Out-of-Plane Free Vibration Characteristics of Symmetric Cross-Ply Laminated Composite Arches with Deep Curvature**  
YILDIRIM V.  
Journal of the Mechanical Behavior of Materials, vol.10, no.3, pp.165-186, 1999 (Scopus)
- XXXVI. **Effect of the material types on the fundamental frequencies of uniaxial composite conical springs**  
Yildirim V., Sancaktar E., Kiral E.  
The 1999 ASME International Mechanical Engineering Congress and Exposition, IMECE'99: Reliability, Stress Analysis, and Failure Prevention Aspects of Composite Material Design, Adhesive Joining, Bolted Connections, Electronic Components, Polymer Engineering and Technology, vol.105, pp.37-50, 1999 (Scopus)
- XXXVII. **Fundamental frequencies of uniaxial composite barrel and hyperboloidal springs**  
Yildirim V., Sancaktar E., Kiral E.  
The 1999 ASME International Mechanical Engineering Congress and Exposition, IMECE'99: Reliability, Stress Analysis, and Failure Prevention Aspects of Composite Material Design, Adhesive Joining, Bolted Connections, Electronic Components, Polymer Engineering and Technology, vol.105, pp.25-35, 1999 (Scopus)
- XXXVIII. **Doğru ve Daire Eksenli Elemanlardan Oluşan Bileşik Düzlem Çerçevelerin Statik Analizi**  
YILDIRIM V., INCE N., KIRAL E.  
Turkish Journal of Engineering and Environmental Sciences, vol.21, pp.137-148, 1997 (Peer-Reviewed Journal)
- XXXIX. **Effects of geometrical quantities on the free vibration of non-cylindrical helical springs | Geometrik büyüklüklerin silindirik olmayan helisel yay frekanslarına etkisi**  
Yildirim V., Ince N.  
Türk Mühendislik ve Çevre Bilimleri Dergisi (Turkish Journal of Engineering and Environmental Sciences), vol.21, pp.399-410, 1997 (Scopus)
- XL. **Statical analysis of compound planar frames of straight and circular members | Doğru ve daire eksenli elemanlardan oluşsan bileşik düzlem çerçevelerin statik analizi**  
Yildirim V., Ince N., Kiral E.  
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- XLI. **Effects of geometrical quantities on the free vibration of non-cylindrical helical springs**  
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- XLII. **Geometrik Büyüklüklerin Silindirik Olmayan Helisel Yay Frekanslarına Etkisi**  
YILDIRIM V., INCE N.  
Turkish Journal of Engineering and Environmental Sciences, vol.21, pp.399-410, 1997 (Peer-Reviewed Journal)
- XLIII. **Dairesel Elemanlardan Oluşan Taşıyıcı Sistemlerin Statiği-I-Düzlemi İçindeYükleme**  
YILDIRIM V., INCE N.  
Süleyman Demirel Üniversitesi, Müh. Mim. Fak. Makina Mühendisliği Dergisi, vol.1, no.9, pp.21-26, 1996 (Peer-Reviewed Journal)
- XLIV. **Dairesel Elemanlardan Oluşan Taşıyıcı Sistemlerin Statiği-II-Düzlemine Dik Yüklemeye**  
YILDIRIM V., INCE N.  
Süleyman Demirel Üniversitesi, Müh. Mim. Fak. Makina Mühendisliği Dergisi, vol.1, no.9, pp.27-32, 1996 (Peer-Reviewed Journal)
- XLV. **Buğdayın Düşey Borularda Pnömatik Taşınmasında Tasarım İlkeleri**  
Yılmaz T., YILDIRIM V., ŞAHİN B.  
Ç. Ü. Mühendislik-Mimarlık Fakültesi Dergisi, vol.11, pp.25-37, 1996 (Peer-Reviewed Journal)
- XLVI. **The Myklestad's method for the free vibration of non-cylindrical helical springs | Silindirik olmayan helisel yayların serbest titreşimi için eçdeğer taşıma matrisi (Myklestad) yöntemi**  
Yildirim V.  
Türk Mühendislik ve Çevre Bilimleri Dergisi (Turkish Journal of Engineering and Environmental Sciences), vol.20, pp.121-128, 1996 (Scopus)
- XLVII. **Effects of the geometrical quantities on the natural frequencies of circular arcs | Çember eksenli çubuklarda geometrik büyüklüklerin doğal frekanslara etkisi**  
Yildirim V., Elbir G.  
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- XLVIII. **The Myklestad's method for the free vibration of non-cylindrical helical springs**  
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- XLIX. **Effects of the geometrical quantities on the natural frequencies of circular arcs**  
YILDIRIM V., Elbir G.  
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- L. **Helisel Yayların Serbest Titreşiminin Rijitlik Matrisi Metodu ile İncelenmesi**  
YILDIRIM V.  
Turkish Journal of Engineering and Environmental Sciences, vol.19, no.4, pp.343-356, 1995 (Peer-Reviewed Journal)
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## Supported Projects

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### **Scientific Refereeing**

International Journal of Mechanics and Materials in Design, Journal Indexed in SSCI, July 2018

Journal of Mechanical Science and Technology, SCI Journal, May 2018

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### **Metrics**

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### **Non Academic Experience**

Akbank