

## Prof. ALTAN KAYRAN

### Personal Information

**Office Phone:** [+90 210 247 1](tel:+902102471)

**Email:** [akayran@metu.edu.tr](mailto:akayran@metu.edu.tr)

**Web:** <https://avesis.metu.edu.tr/akayran>

### Education Information

Doctorate, University Of Delaware, Makina Mühendisliği - Katmanlı Kompozit Kabuk Yapılarının Serbest Titreşimi, United States Of America 1985 - 1990

### Foreign Languages

English, C1 Advanced

### Dissertations

Post Graduate, A Preliminary Sizing Tool for Minimum Weight Aircraft Wingbox Structural Design, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2018

Post Graduate, The Effect of Structural Layout on the Supersonic Flutter Characteristics of a Fighter Wing, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2018

Post Graduate, Design and Analysis of Fixed Crushable Column Type Energy Absorbing Mechanism for a Helicopter Seat,, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2018

Post Graduate, Coupling of a Multi-Body Simulation Tool for the Analysis of Rotary Systems with a Panel Based Flow Solver and a Navier-Stokes Flow Solver, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2018

Post Graduate, Reduced Order Modeling of Helicopter Substructures for Dynamic Analysis, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2018

Doctorate, Aeroelastic Analysis of Composite Wings and Wind Turbine Blades Including Geometrical Nonlinearity and Compressibility, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2018

### Research Areas

Aeronautical and Space Engineering, Engineering and Technology

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2011 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2006 - 2011

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2003 - 2006

## Professional Experience

Rektörlük Akademik Teşvik Değerlendirme Komisyonu Üyesi, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2019 - Continues  
Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2017 - Continues  
Assistant Manager of Research and Application Center, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2017 - Continues  
Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2018 - 2018

## Advising Theses

Kayran A., Multibody simulation of helicopter rotor with structural flexibility, Post Graduate, B.İHSAN(Student), 2019  
Kayran A., Aeroelastic modeling and analysis of high aspect ratio wings with different fidelity structural models, Post Graduate, G.ÇİÇEK(Student), 2019  
Kayran A., Flutter analysis of fixed and rotary wings, Post Graduate, O.ÇİÇEK(Student), 2019  
Kayran A., Structural optimization of composite and aluminum horizontal tail plane of a helicopter, Post Graduate, B.ARPACIOĞLU(Student), 2019  
Kayran A., Development of a regression model for the fatigue life assessment of open-hole specimens with double through the thickness cracks, Post Graduate, S.SOHRAB(Student), 2019  
Kayran A., Vibration fatigue analysis and testing of notched beams, Post Graduate, G.İSMAİL(Student), 2019  
KAYRAN A., Post-buckling behaviour of metallic skin-stringer assemblies and buckling of composite flat panels, Post Graduate, E.AYDIN(Student), 2018  
KAYRAN A., Structural optimization of composite helicopter rotor blades, Post Graduate, A.AYBERK(Student), 2018  
KAYRAN A., Design and analysis of fixed load crushable column type energy absorbing mechanism for a helicopter seat, Post Graduate, G.ÖZTÜRK(Student), 2018  
KAYRAN A., Aeroelastic analysis of composite wings and wind turbine blades including geometrical nonlinearity and compressibility, Doctorate, T.Farsadi(Student), 2018  
KAYRAN A., The effect of structural layout on the supersonic flutter characteristics of a fighter wing, Post Graduate, B.OKUMUŞ(Student), 2018  
KAYRAN A., A preliminary sizing tool for minimum weight aircraft wingbox structural design, Post Graduate, M.MERT(Student), 2018  
KAYRAN A., Reduced order modeling of helicopter substructures for dynamic analysis, Post Graduate, U.HAYIRLI(Student), 2018  
KAYRAN A., Development of artificial neural network based design tool for aircraft engine bolted flange connection subject to combined axial and moment load, Post Graduate, T.VOLKAN(Student), 2018  
KAYRAN A., Aeroelastic analysis of composite wings and wind turbine blades including geometrical nonlinearity and compressibility, Doctorate, T.FARSADI(Student), 2018  
TUNCER İ. H. , KAYRAN A., Coupling of a multibody simulation tool for the analysis of rotary systems with a panel based flow solver and a navier-stokes flow solver, Post Graduate, S.SOĞANCI(Student), 2018  
KAYRAN A., Comparative study of finite element analysis and geometrically exact beam analysis of a composite helicopter blade, Post Graduate, M.NİSA(Student), 2018  
KAYRAN A., The effect of blade torsional elasticity on helicopter flight dynamics, Post Graduate, E.AKEL(Student), 2017  
KAYRAN A., Nonlinear static aeroelastic behavior of composite missile fin with interlaminar and intralaminar damage, Post Graduate, Ö.Özkaya(Student), 2017  
KAYRAN A., Nonlinear static aeroelastic behaviour of composite missile fins with interlaminar and intralaminar damage, Post Graduate, Z.ÖZGE(Student), 2017  
KAYRAN A., Determination of the bending twisting coupling potential of composite materials via digital image correlation and its implementation in wind turbine blades, Post Graduate, Ö.ŞENER(Student), 2017

KAYRAN A., Progressive interlaminar failure analysis in composite missile structures, Post Graduate, B.BARTAN(Student), 2016

KAYRAN A., Material characterization at high strain rates using modified taylor impact test and velocity interferometry, Post Graduate, L.KESEMEN(Student), 2016

KAYRAN A., Aerodynamic and structural design and analysis of an electric powered mini UAV, Post Graduate, A.DEMİRCAN(Student), 2016

KAYRAN A., Damage analysis and assessment in bridge like structures due to high explosive blast load, Post Graduate, Ö.ERDOLU(Student), 2016

KAYRAN A., Investigation of effects of bird strike on wing leading edge by using explicit finite element method, Post Graduate, O.DEDE(Student), 2015

KAYRAN A., Comparison of experimental study and finite element analysis of bolted flange connections, Post Graduate, S.EMRE(Student), 2015

KAYRAN A., Load analysis of an aircraft using simplified aerodynamic and structural models, Post Graduate, E.ÜNAY(Student), 2015

KAYRAN A., Development of bolted flange design tool based on finite element analysis and artificial neural network, Post Graduate, A.YILDIRIM(Student), 2015

KAYRAN A., VULNERABILITY ASSESSMENT AND SURVIVABILITY ANALYSIS OF AIRCRAFT, Doctorate, H.EMRAH(Student), 2015

KAYRAN A., Investigation of effects of bird strike problem on wing leading edge by using explicit finite element method, Post Graduate, O.Dede(Student), 2015

KAYRAN A., Comparative study of transient and quasi-steady aeroelastic analysis of composite wind turbine blade in steady wind conditions, Post Graduate, H.SARGIN(Student), 2014

KAYRAN A., Design optimization of whiffletree systems for wind turbine blade testing, Post Graduate, S.CEM(Student), 2014

KAYRAN A., Investigation of the effect of bending twisting coupling on the loads in wind turbines with superelement blade definition, Post Graduate, M.OZAN(Student), 2014

ERDAL ERDOĞMUŞ M., KAYRAN A., Evaluation of effective elastic properties of honeycomb sandwich structures by optimization involving modal behavior, Post Graduate, O.ÇINAR(Student), 2014

KAYRAN A., Analysis and optimization of cylindrical structures manufactured by automated fiber placement technique, Post Graduate, S.GÜLDÜ(Student), 2014

KAYRAN A., Aeroservoelastic modeling of a missile control, Post Graduate, M.Ozan(Student), 2013

KAYRAN A., Aeroservoelastic modeling of a missile control fin, Post Graduate, M.OZAN(Student), 2013

KAYRAN A., Linear and nonlinear progressive failure analysis of laminated composite aerospace structures, Post Graduate, M.GÜNEL(Student), 2012

KAYRAN A., Discrete fiber path angle and continuous fiber path optimization in composite structures, Post Graduate, H.İNCİ(Student), 2012

KAYRAN A., Design optimization of truss structures using genetic algorithms, Post Graduate, D.ÜNALMIŞ(Student), 2012

GÜRBÜZ R., KAYRAN A., Determination of stress intensity factors in cracked panels reinforced with riveted stiffeners, Post Graduate, M.BURAK(Student), 2012

KAYRAN A., Flutter analysis and simulated flutter test of wings, Post Graduate, T.BİRTAN(Student), 2012

KAYRAN A., Determination of prying load on bolted connections, Post Graduate, M.ATASOY(Student), 2012

KAYRAN A., Discrete fiber angle and continuous fiber path optimization in composite structures, Post Graduate, H.İnci(Student), 2012

KAYRAN A., Design, analysis and optimization of thin walled semi-monocoque wing structures using different structural idealizations in the preliminary design phase, Post Graduate, O.DABABNEH(Student), 2011

ALEMDAROĞLU H. N. , KAYRAN A., Structural and aeroelastic analyses of a composite tactical unmanned air vehicle, Post Graduate, S.ÖZÖZTÜRK(Student), 2011

KAYRAN A., Investigation of the effect of semi-geodesic winding on the vibration characteristics of filament wound shells of revolution, Post Graduate, C.SERKAN(Student), 2010

KAYRAN A., Development of a closely coupled approach for solution of static and dynamic aeroelastic problems, Post Graduate, E.BAŞKUT(Student), 2010

KAYRAN A., Low velocity impact analysis of a composite mini unmanned air vehicle during belly landing, Post Graduate, S.YÜKSEL(Student), 2009

KAYRAN A., Semi analytical study of stress and deformation analysis of anisotropic shells of revolution including first order transverse shear deformation, Post Graduate, Ö.SİNAN(Student), 2008

KAYRAN A., Development of Lagrangian Hydrocode High Speed Impact Analysis and Its Experimental Verification, Post Graduate, H.EMRAH(Student), 2008

KAYRAN A., Electronic packaging and environmental test and analysis of an EMI shielded electronic unit for naval platform, Post Graduate, Y.DEVELLİOĞLU(Student), 2008

ALEMDAROĞLU H. N. , KAYRAN A., Structural design, analysis and composite manufacturing applications for a tactical unmanned air vehicle, Post Graduate, S.SOYSAL(Student), 2008

KAYRAN A., Structural optimization strategies via different optimization and solver codes and aerospace applications, Post Graduate, M.EKREN(Student), 2008

KAYRAN A., Stacking sequence optimization of a composite pressure vessel by genetic algorithm, Post Graduate, H.KUTAY(Student), 2007

KAYRAN A., Manufacturing and structural analysis of a lightweight sandwich composite UAV wing, Post Graduate, T.TURGUT(Student), 2007

KAYRAN A., Investigation of design and analyses principles of honeycomb structures, Post Graduate, İ.AYDINCAK(Student), 2007

KAYRAN A., Development of a sabot design tool for aeroballistic range testing, Post Graduate, K.EFE(Student), 2006

KAYRAN A., Free vibration analysis of anisotropic laminated composite shells of revolution, Post Graduate, E.YAVUZBALKAN(Student), 2005

KAYRAN A., Thermodynamic and structural design and analysis of a novel turbo rotary engine, Post Graduate, T.ERCAN(Student), 2005

YAMAN Y., KAYRAN A., Structural analysis of airborne, stiffened, cylindrical external store, Post Graduate, C.TAŞ(Student), 2002

## **Taught Courses And Trainings**

Uzol O., Kayran A., Sezer Uzol N., Çöker D., Huvaj Sarıhan N., Oğuz E., Keysan O., Perçin M., Rüzgar Enerjisi ve Rüzgar Türbini Teknolojileri Temel Eğitimi, 2019 - 2019

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

- I. **Flutter study of flapwise bend-twist coupled composite wind turbine blades**  
Farsadi T., KAYRAN A.  
WIND AND STRUCTURES, vol.32, no.3, pp.267-281, 2021 (Journal Indexed in SCI)
- II. **Classical flutter analysis of composite wind turbine blades including compressibility**  
Farsadi T., KAYRAN A.  
WIND ENERGY, vol.24, no.1, pp.69-91, 2021 (Journal Indexed in SCI)
- III. **Reduced order nonlinear aeroelasticity of swept composite wings using compressible indicial unsteady aerodynamics**  
Farsadi T., Rahmanian M., KAYRAN A.  
JOURNAL OF FLUIDS AND STRUCTURES, vol.92, 2020 (Journal Indexed in SCI)
- IV. **Development of Bolted Flange Design Tool Based on Artificial Neural Network**  
Yildirim A., Akay A. A. , Gülasik H., Çöker D., Gürses E., Kayran A.  
Journal of Pressure Vessel Technology, Transactions of the ASME, vol.141, 2019 (Journal Indexed in SCI)
- V. **Geometrically nonlinear aeroelastic behavior of pretwisted composite wings modeled as thin walled beams**  
Farsadi T., Rahmanian M., KAYRAN A.

JOURNAL OF FLUIDS AND STRUCTURES, vol.83, pp.259-292, 2018 (Journal Indexed in SCI)

- VI. **Evaluation of the Effect of Spar Cap Fiber Angle of Bending-Torsion Coupled Blades on the Aero-Structural Performance of Wind Turbines**  
Şener Ö., Farsadi T., Gozc M. O. , Kayran A.  
Journal of Solar Energy Engineering, Transactions of the ASME, vol.140, 2018 (Journal Indexed in SCI)
- VII. **Aircraft vulnerability assessment against fragmentation warhead**  
Konokman H. E. , KAYRAN A., KAYA M.  
AEROSPACE SCIENCE AND TECHNOLOGY, vol.67, pp.215-227, 2017 (Journal Indexed in SCI)
- VIII. **Experimental and numerical study of process-induced total spring-in of corner-shaped composite parts**  
Cicek K. F. , Erdal Erdoğmuş M., Kayran A.  
JOURNAL OF COMPOSITE MATERIALS, vol.51, pp.2347-2361, 2017 (Journal Indexed in SCI)
- IX. **Accurate equivalent models of sandwich laminates with honeycomb core and composite face sheets via optimization involving modal behavior**  
Cinar O., ERDAL ERDOĞMUŞ M., KAYRAN A.  
JOURNAL OF SANDWICH STRUCTURES & MATERIALS, vol.19, no.2, pp.139-166, 2017 (Journal Indexed in SCI)
- X. **Two-stage fatigue life evaluation of an aircraft fuselage panel with a bulging circumferential crack and a broken stringer**  
Sayar B., KAYRAN A.  
FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES, vol.37, no.5, pp.494-507, 2014 (Journal Indexed in SCI)
- XI. **Non-linear progressive failure analysis of open-hole composite laminates under combined loading**  
Gunel M., KAYRAN A.  
JOURNAL OF SANDWICH STRUCTURES & MATERIALS, vol.15, no.3, pp.309-339, 2013 (Journal Indexed in SCI)
- XII. **Effect of Semi-Geodesic Winding on the Vibration Characteristics of Filament Wound Shells of Revolution**  
KAYRAN A., Ibrahimoglu C. S.  
JOURNAL OF APPLIED MECHANICS-TRANSACTIONS OF THE ASME, vol.78, no.6, 2011 (Journal Indexed in SCI)
- XIII. **Computational and experimental study of high-speed impact of metallic Taylor cylinders**  
Konokman H. E. , Coruh M. M. , KAYRAN A.  
ACTA MECHANICA, vol.220, pp.61-85, 2011 (Journal Indexed in SCI)
- XIV. **Free-Vibration Analysis of Ring-Stiffened Branched Composite Shells of Revolution**  
KAYRAN A., Yavuzbalkan E.  
AIAA JOURNAL, vol.48, no.4, pp.749-762, 2010 (Journal Indexed in SCI)
- XV. **An Approach for the Evaluation of Effective Elastic Properties of Honeycomb Cores by Finite Element Analysis of Sandwich Panels**  
Aydincak I., KAYRAN A.  
JOURNAL OF SANDWICH STRUCTURES & MATERIALS, vol.11, no.5, pp.385-408, 2009 (Journal Indexed in SCI)
- XVI. **Semi-analytical study of free vibration characteristics of shear deformable filament wound anisotropic shells of revolution**  
KAYRAN A., Yavuzbalkan E.  
JOURNAL OF SOUND AND VIBRATION, vol.319, pp.260-281, 2009 (Journal Indexed in SCI)
- XVII. **Flight flutter testing and aeroelastic stability of aircraft**  
Kayran A.  
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.79, no.5, pp.494-506, 2007 (Journal Indexed in SCI)
- XVIII. **Kuessner's function in the sharp-edged gust problem - A correction**  
Kayran A.  
JOURNAL OF AIRCRAFT, vol.43, no.5, pp.1596-1599, 2006 (Journal Indexed in SCI)
- XIX. **Flutter qualification of transport aircraft with store suspension**  
Kayran A.  
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.76, no.1, pp.19-28, 2004 (Journal Indexed in SCI)

- XX. **Effect of stacking sequence on free vibration frequencies of laminated composite circular cylindrical shells**  
Kayran A., Anlas G.  
JOURNAL OF VIBRATION AND CONTROL, vol.5, no.3, pp.355-372, 1999 (Journal Indexed in SCI)
- XXI. **A method of strain and stress analysis for failure prediction in laminated composites**  
Ardıç E., Bolcan C., Kayran A.  
Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, vol.209, no.1, pp.43-51, 1995 (Journal Indexed in SCI)
- XXII. **A METHOD OF STRAIN AND STRESS-ANALYSIS OF COMPOSITES FOR NONLINEAR STRAIN DISTRIBUTION CASE**  
ARDIC E., BOLCAN C., KAYRAN A.  
INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, vol.31, no.24, pp.3457-3473, 1994 (Journal Indexed in SCI)
- XXIII. **A METHOD FOR THE CALCULATION OF NATURAL FREQUENCIES OF ORTHOTROPIC AXISYMMETRICALLY LOADED SHELLS OF REVOLUTION**  
KAYRAN A., VINSON J., ARDIC E.  
JOURNAL OF VIBRATION AND ACOUSTICS-TRANSACTIONS OF THE ASME, vol.116, no.1, pp.16-25, 1994 (Journal Indexed in SCI)
- XXIV. **THE EFFECT OF TRANSVERSE-SHEAR DEFORMATION ON THE NATURAL FREQUENCIES OF LAYERED COMPOSITE PARABOLOIDAL SHELLS**  
KAYRAN A., VINSON J.  
JOURNAL OF VIBRATION AND ACOUSTICS-TRANSACTIONS OF THE ASME, vol.112, no.4, pp.429-439, 1990 (Journal Indexed in SCI)
- XXV. **TORSIONAL VIBRATIONS OF LAYERED COMPOSITE PARABOLOIDAL SHELLS**  
KAYRAN A., VINSON J.  
JOURNAL OF SOUND AND VIBRATION, vol.141, no.2, pp.231-244, 1990 (Journal Indexed in SCI)
- XXVI. **FREE-VIBRATION ANALYSIS OF LAMINATED COMPOSITE TRUNCATED CIRCULAR CONICAL SHELLS**  
KAYRAN A., VINSON J.  
AIAA JOURNAL, vol.28, no.7, pp.1259-1269, 1990 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Development of a regression model for the life assessment of open-hole specimens with double through cracks utilizing stress intensity factor calculations via XFEM**  
Heıdarı S., Kayran A.  
Procedia Structural Integrity, vol.21, pp.154-165, 2019 (Refereed Journals of Other Institutions)
- II. **Implementation of Dirlik's damage model for the vibration fatigue analysis**  
Demirel G., Kayran A.  
Procedia Structural Integrity, vol.21, pp.101-111, 2019 (International Conference Book)
- III. **Load Reduction in Wind Turbines with Bend-Twist Coupled Blades without Power Loss at Underrated Wind Speeds**  
Atalay O., Kayran A.  
Journal of Physics: Conference Series, vol.1037, no.42015, pp.1-10, 2018 (Refereed Journals of Other Institutions)
- IV. **Investigation of the effect of bending twisting coupling on the loads in wind turbines with superelement blade definition**  
Gözcü M. O. , Kayran A.  
Journal of Physics: Conference Series, vol.524, no.12040, pp.1-10, 2014 (Refereed Journals of Other Institutions)
- V. **Preliminary study on the applicability of semi-geodesic winding in the design and manufacturing of composite towers**  
Kayran A., İbrahimođlu C. S.

- Journal of Physics: Conference Series, vol.555, no.12059, pp.1-12, 2014 (Refereed Journals of Other Institutions)
- VI. **Comparison of transient and quasi-steady aeroelastic analysis of wind turbine blade in steady wind conditions**  
Sargın H., Kayran A.  
Journal of Physics: Conference Series, vol.524, no.12051, pp.1-11, 2014 (Refereed Journals of Other Institutions)
- VII. **Design, analysis and optimization of thin walled semi-monocoque wing structures using different structural idealization in the preliminary design phase**  
Dababneh O., KAYRAN A.  
International Journal of Structural Integrity, vol.5, no.3, pp.214-226, 2014 (Journal Indexed in ESCI)
- VIII. **Investigation of the effect of bending twisting coupling on the load in wind turbines with superelement blade definition**  
GÖZCÜ M. O. , KAYRAN A.  
Journal of Physics Conference Series, vol.524, no.12040, 2014 (Refereed Journals of Other Institutions)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **AEROELASTIC MODELING AND ANALYSIS OF HIGH ASPECT RATIO WINGS WITH DIFFERENT FIDELITY STRUCTURAL MODELS**  
Çiçek G., KAYRAN A.  
ASME 2019 International Mechanical Engineering Congress and Exposition, 11 - 14 November 2019
- II. **COMPARATIVE STRUCTURAL OPTIMIZATION STUDY OF COMPOSITE AND ALUMINUM HORIZONTAL TAIL PLANE OF A HELICOPTER**  
Arpacioğlu B., KAYRAN A.  
ASME 2019 International Mechanical Engineering Congress and Exposition, 11 - 14 November 2019
- III. **Multibody Simulation of Helicopter Rotor with Structural Flexibility**  
Turan B. İ. , KAYRAN A.  
8th Asian/Australian Rotorcraft Forum, 30 October - 02 November 2019
- IV. **A COMPARISON STUDY ON STRENGTH ANALYSIS OF COMPOSITE REPAIR ADHESIVE ZONE BY ANALYTICAL METHODS AND ABAQUS COHESIVE ZONE MODELLING TECHNIQUES**  
Ekren M., Kayran A.  
10th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Turkey, 18 - 20 September 2019, pp.1-10
- V. **AN INVESTIGATION ON DEVELOPMENT OF A PREDICTION MODEL FOR FATIGUE LIFE OF OPEN HOLE SPECIMENS WITH DOUBLE THROUGH THE THICKNESS CRACKS USING RESPONSE SURFACE METHODOLOGY**  
Shabestari S. H. , Kayran A.  
10th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Turkey, 18 - 20 September 2019, no.2019046, pp.1-15
- VI. **Experimental Assessment of Bend-Twist Coupling Potentials of Composite Materials via Digital Image Correlation Method**  
ŞENER Ö., ATALAY O., KAYRAN A.  
AIAA SciTech Forum, 7 - 11 January 2019
- VII. **Development of a regression model for the life assessment of open-hole specimens with double through cracks utilizing stress intensity factor calculations via XFEM**  
Shabestari S. S. H. , KAYRAN A.  
1st International Workshop on Plasticity, Damage and Fracture of Engineering Materials, IWPDF 2019, Ankara, Turkey, 22 - 23 August 2019, vol.21, pp.154-165
- VIII. **Implementation of Dirlik's damage model for the vibration fatigue analysis**  
Demirel İ. G. , Kayran A.  
1st International Workshop on Plasticity, Damage and Fracture of Engineering Materials, IWPDF 2019, Ankara, Turkey, 22 - 23 August 2019, pp.101-111

- IX. ENERGY ABSORPTION MECHANISMS AND CRASH ANALYSIS OF HELICOPTER SEATS**  
Öztürk G., KAYRAN A.  
International Mechanical Engineering Congress and Exposition IMECE2018, United States Of America, 9 - 15 November 2018
- X. EVALUATION OF TRANSVERSE SHEAR MODULI OF COMPOSITE SANDWICH BEAMS THROUGH THREE-POINT BENDING TESTS**  
ŞENER Ö., Dede O., ATALAY O., ATASOY M., KAYRAN A.  
International Mechanical Engineering Congress and Exposition IMECE2018, United States Of America, 9 - 15 November 2018
- XI. COMPARATIVE STUDY OF POST-BUCKLING LOAD REDISTRIBUTION IN STIFFENED AIRCRAFT PANEL WITH AND WITHOUT MATERIAL NONLINEARITY**  
AYDIN E., KAYRAN A.  
International Mechanical Engineering Congress and Exposition IMECE2018, United States Of America, 9 - 15 November 2018
- XII. KANAT SUPERSONİK FLUTTER HIZININ İKİ BOYUTLU KANAT AERODİNAMİĞİ İLE TAHMİNİ**  
Okumuş B., Kayran A.  
VII. ULUSAL HAVACILIK VE UZAY KONFERANSI, Samsun, Turkey, 12 - 14 September 2018, no.20181040, pp.1-11
- XIII. Determination of Transverse Shear Moduli of Composite Core Materials Through Sandwich Beam Tests**  
ŞENER Ö., Dede O., ATALAY O., ATASOY M., KAYRAN A.  
12th International Conference on Sandwich Structures ICSS-12, Switzerland, 19 - 22 August 2018
- XIV. Nonlinear Static Aeroelastic Behavior of Composite Missile Fin with Interlaminar and Intralaminar Damage**  
ÖZKAYA Ö., KAYRAN A.  
AIAA SciTech Forum 2018 AIAA/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference, United States Of America, 8 - 12 January 2018
- XV. Optimization of Variable Stiffness Composite Laminates by Particle Swarm and Whale Optimization Algorithms Utilizing Surrogate Models**  
İNCİ H., KAYRAN A.  
AIAA SciTech Forum 2018 AIAA/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference, Kissimmee, United States Of America, 8 - 12 January 2018
- XVI. Structural Performance and Power Production of Wind Turbine Systems with Bend-Twist Coupled Blades in Underrated Wind Conditions**  
ŞENER Ö., KAYRAN A.  
AIAA SciTech Forum 2018 AIAA/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference, United States Of America, 8 - 12 January 2018
- XVII. Coupling of a multibody simulation tool for rotary systems with an unsteady viscous flow solver**  
Soğancı S., KAYRAN A., TUNCER İ. H.  
AIAA Aerospace Sciences Meeting, 2018, Florida, United States Of America, 8 - 12 January 2018
- XVIII. FREE VIBRATION ANALYSIS OF UNIFORM AND ASYMMETRIC COMPOSITE PRETWISTED ROTATING THIN WALLED BEAM**  
Farsadi T., ŞENER Ö., KAYRAN A.  
ASME International Mechanical Engineering Congress and Exposition, Tama, Japan, 3 - 09 November 2017
- XIX. DEVELOPMENT OF ARTIFICIAL NEURAL NETWORK BASED DESIGN TOOL FOR AIRCRAFT ENGINE BOLTED FLANGE CONNECTION SUBJECT TO COMBINED AXIAL AND MOMENT LOAD**  
Sanli T. V., Gürses E., Çöker D., Kayran A.  
ASME International Mechanical Engineering Congress and Exposition, Tama, Japan, 3 - 09 November 2017
- XX. EXPERIMENTAL STUDY AND FINITE ELEMENT ANALYSIS OF DOVETAIL ATTACHMENTS**  
Akay A. A., Çöker D., Kayran A., Gürses E.  
ASME International Mechanical Engineering Congress and Exposition, Tama, Japan, 3 - 09 November 2017
- XXI. Damage Analysis in Blast Loaded Concrete Columns Using Single Degree of Freedom Approach**



- ERDOLU Ö., KAYRAN A.  
17th International Symposium on the Interaction of the Effects of Munitions with Structures- ISIEMS, Germany, 16 - 20 October 2017
- XXII. **Design Optimization of Variable Stiffness Composite Laminates Using Surrogate Models for Compliance and Buckling Load**  
İNCİ H., KAYRAN A.  
9th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Turkey, 20 - 22 September 2017
- XXIII. **Comparison of 2D and 3D Homogenization Processes for Micromechanics Analysis of Unidirectional Composites**  
ATASOY M., KAYRAN A.  
9th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Turkey, 20 - 22 September 2017
- XXIV. **Investigation of the Effect of Boundary Conditions on the Buckling Coefficients of Stiffened Flat Panels**  
AYDIN E., KAYRAN A.  
9th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Turkey, 20 - 22 September 2017
- XXV. **Nonlinear Static Aeroelastic Behaviour of Composite Missile Fin with Interlaminar Damage**  
ÖZKAYA Ö., KAYRAN A.  
9th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Turkey, 20 - 22 September 2017
- XXVI. **Energy Absorption Mechanisms and Crash Analysis of Helicopter Seats**  
ÖZTÜRK G., KAYRAN A.  
9th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Turkey, 20 - 22 September 2017
- XXVII. **The Effect of Modal Damping on Random Vibration Metal Fatigue Analysis**  
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