

Assoc. Prof. ERCAN GÜRSES

Personal Information

Office Phone: [+90 312 210 4257](tel:+903122104257)

Email: gurses@metu.edu.tr

Web: <http://users.metu.edu.tr/gurses/>

Education Information

Doctorate, Universitaet Stuttgart, İnşaat Mühendisliği Fakültesi, Germany 2002 - 2007

Post Graduate, Universitaet Stuttgart, Germany 2000 - 2002

Under Graduate, Middle East Technical University, Faculty of Engineering, Department of Civil Engineering, Turkey 1994 - 1999

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Aspects of Energy Minimization in Solid Mechanics: Evolution of Inelastic Microstructures and Crack Propagation, Universitaet Stuttgart, İnşaat Mühendisliği Fakültesi, 2007

Post Graduate, Two-Scale Relaxation Analysis of Finite-Strain Single Slip Plasticity based on a First-Order Rank-One Convexification, Universitaet Stuttgart, 2002

Research Areas

Mechanics of Solid Bodies, Solid Mechanics, Fracture Mechanics, Finite Element Methods, Continuous Mechanics, Composites, Polymeric Materials, Nanomaterials

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty Of Engineering, Department Of Aerospace Engineering, 2017 - Continues

Assistant Professor, Middle East Technical University, Faculty Of Engineering, Department Of Aerospace Engineering, 2011 - 2017

Research Assistant, California Institute Of Technology, Mühendislik Fakültesi, Havacılık Mühendisliği, 2007 - 2009

Research Assistant, Universitaet Stuttgart, Mühendislik Fakültesi, İnşaat Mühendisliği, 2002 - 2007

Courses

DYNAMICS, Under Graduate, 2011 - 2012, 2018 - 2019

Advising Theses

GÜRSES E., A modulus gradient elasticity model for nano-reinforced composites, Doctorate, H.GÜLAŞIK(Student), 2018
TOFFOLÌ H., GÜRSES E., Density functional theory and molecular dynamics simulations of carbon nanotubes,

polyetheretherketone and their interfaces, Post Graduate, G.TORAMAN(Student), 2018

GÜRSES E., Micromechanical modeling of carbon nanotube-polymer composites, Post Graduate, V.TAÇ(Student), 2018

GÜRSES E., A study on energy trapping parameters of a multistable elastic beam, Post Graduate, A.ZEMBİLÖREN(Student), 2018

GÜRSES E., Development of an artificial neural network based analysis method for skin-stringer structures, Post Graduate, A.CANKUR(Student), 2017

GÜRSES E., Numerical simulation of non-energetic reactive armors, Post Graduate, M.CAN(Student), 2017

GÜRSES E., Optimization of compliant parts of a hybrid trailing edge control surface of a morphing unmanned aerial vehicle, Post Graduate, P.ARSLAN(Student), 2017

ÇÖKER D., GÜRSES E., Experimental and numerical investigation of damage process in composite laminates under low -velocity impact, Post Graduate, Ö.TANAY(Student), 2016

GÜRSES E., Finite element analysis and experimental study of dovetail attachments, Post Graduate, A.ARDA(Student), 2016

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

- **Micromechanical modelling of carbon nanotube reinforced composite materials with a functionally graded interphase**
Taç V., Gürses E.
Journal of Composite Materials, vol.53, pp.4337-4348, 2019 (Journal Indexed in SCI)
- **A modulus gradient model for inhomogeneous materials with isotropic linear elastic constituents**
Gülaşık H., Göktepe S., Gürses E.
European Journal of Mechanics, A/Solids, vol.78, 2019 (Journal Indexed in SCI)
- **Development of Bolted Flange Design Tool Based on Artificial Neural Network**
Yıldırım A., Akay A. A. , Gülaşık H., Çöker D., Gürses E., Kayran A.
Journal of Pressure Vessel Technology, Transactions of the ASME, vol.141, 2019 (Journal Indexed in SCI)
- **A modulus gradient model for an axially loaded inhomogeneous elastic rod**
Gulasuk H., Göktepe S., Gürses E.
MECCANICA, vol.53, pp.2573-2584, 2018 (Journal Indexed in SCI)
- **Structural and aerodynamic analyses of a hybrid trailing edge control surface of a fully morphing wing**
Gürses E., Tunçöz I. O. , Yang Y., Arslan P., Kalkan U., Tıraş H., Şahin M., Özgen S., Yaman Y.
JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES, vol.28, pp.979-991, 2017 (Journal Indexed in SCI)
- **Experimental and computational study of the damage process in CFRP composite beams under low-velocity impact**
Topac O. T. , Gözlüklü B., Gürses E., Çöker D.
COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING, vol.92, pp.167-182, 2017 (Journal Indexed in SCI)
- **Modeling of spherulite microstructures in semicrystalline polymers**
Oktay H. E. , Gürses E.
MECHANICS OF MATERIALS, vol.90, pp.83-101, 2015 (Journal Indexed in SCI)
- **Constitutive modeling of stress-driven grain growth in nanocrystalline metals**
GÜRSES E., Wafai H., El Sayed T.
MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING, vol.21, 2013 (Journal Indexed in SCI)
- **A phenomenological two-phase constitutive model for porous shape memory alloys**
EL SAYED T., GÜRSES E., SIDDIQ A.
COMPUTATIONAL MATERIALS SCIENCE, vol.60, pp.44-52, 2012 (Journal Indexed in SCI)
- **A constitutive model of nanocrystalline metals based on competing grain boundary and grain interior deformation mechanisms**
GÜRSES E., EL SAYED T.
MATERIALS LETTERS, vol.65, pp.3391-3395, 2011 (Journal Indexed in SCI)
- **On evolving deformation microstructures in non-convex partially damaged solids**

GÜRSES E., MIEHE C.

JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, vol.59, pp.1268-1290, 2011 (Journal Indexed in SCI)

- **Constitutive modeling of strain rate effects in nanocrystalline and ultrafine grained polycrystals**

GÜRSES E., TAMER E. S.

INTERNATIONAL JOURNAL OF SOLIDS AND STRUCTURES, vol.48, pp.1610-1616, 2011 (Journal Indexed in SCI)

- **A variational multiscale constitutive model for nanocrystalline materials**

GÜRSES E., EL SAYED T.

JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, vol.59, pp.732-749, 2011 (Journal Indexed in SCI)

- **On tension-compression asymmetry in ultrafine-grained and nanocrystalline metals**

GÜRSES E., Tamer E. S.

COMPUTATIONAL MATERIALS SCIENCE, vol.50, pp.639-644, 2010 (Journal Indexed in SCI)

- **Shock-induced subgrain microstructures as possible homogenous sources of hot spots and initiation sites in energetic polycrystals**

RIMOLI J., GÜRSES E., ORTIZ M.

PHYSICAL REVIEW B, vol.81, 2010 (Journal Indexed in SCI)

- **A computational framework of three-dimensional configurational-force-driven brittle crack propagation**

GÜRSES E., MIEHE C.

COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING, vol.198, pp.1413-1428, 2009 (Journal Indexed in SCI)

- **A robust algorithm for configurational-force-driven brittle crack propagation with R-adaptive mesh alignment**

MIEHE C., GÜRSES E.

INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING, vol.72, pp.127-155, 2007 (Journal Indexed in SCI)

- **A computational framework of configurational-force-driven brittle fracture based on incremental energy minimization**

MIEHE C., GÜRSES E., BIRKLE M.

INTERNATIONAL JOURNAL OF FRACTURE, vol.145, pp.245-259, 2007 (Journal Indexed in SCI)

- **Analysis of material instabilities in inelastic solids by incremental energy minimization and relaxation methods: evolving deformation microstructures in finite plasticity**

MIEHE C., LAMBRECHT M., GÜRSES E.

JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS, vol.52, pp.2725-2769, 2004 (Journal Indexed in SCI)

Articles Published in Other Journals

- **Decamber Morphing Concepts by Using a Hybrid Trailing Edge Control Surface**

Yaman Y., Tuncoz I. O. , Yang Y., Arslan P., Kalkan U., Tiras H., Gürses E., Şahin M., Özgen S.

AEROSPACE, vol.2, pp.482-504, 2015 (Journal Indexed in ESCI)

Book & Book Chapters

- **in: Numerical Mathematics and Advanced Applications**

Oktay H. E. , Gürses E.

Modeling of a Three-Dimensional Spherulite Microstructure in Semicrystalline Polymers, M. Manguoğlu, M. Tezer-Sezgin, S. Göktepe, Ö. Uğur, Editor, Springer, London/Berlin, Berlin, pp.567-574, 2016

- **in: Failure and Damage Evolution Volume 8 Proceedings of the 2015 Annual Conference on Experimental and Applied Mechanics**

TOPAÇ Ö. T. , TAŞDEMİR B., GÖZLÜKLÜ B., GÜRSES E., ÇÖKER D.

Experimental and Computational Investigation of Out-of-Plane Low Velocity Impact Behavior of CFRP Composite

Plates, Beese, Allison M., Zehnder, Alan T., Xia, Shuman, Editor, Springer, pp.9-16, 2016

- **in: Fracture Fatigue Failure and Damage Evolution Volume 8**

Topac T., Tasdemir B., Gozluklu B., GÜRSES E., ÇÖKER D.

Experimental and Computational Investigation of Out-of-Plane Low Velocity Impact Behavior of CFRP Composite Plates, Allison M. Beese, Alan T. Zehnder, Shuman Xia, Editor, Springer, pp.9-16, 2016

- **in: Multifield problems in Fluid and Solid Mechanics**

GÜRSES E., MAINIK A., MIEHE C., MIELKE A.

Analytical and Numerical Methods for Finite Strain Elastoplasticity, Helmig, R., Mielke, A., Wohlmuth, B., Editor, Springer, pp.491-529, 2006

Refereed Congress / Symposium Publications in Proceedings

- **Finite Element Modelling of TBC Failure Mechanisms by Using XFEM and CZM**

Bostancı S. M. , GÜRSES E., ÇÖKER D.

1st International Workshop on Plasticity, Damage and Fracture of Engineering Materials (WPDF), Ankara, Turkey, 22 - 23 Ağustos 2019, vol.21, pp.91-100

- **Development of Structural Neural Network Design Tool for Buckling Behaviour of Skin-Stringer Structures Under Combined Compression and Shear Loading**

Okul A., Gürses E.

ASME 2018 International Mechanical Engineering Congress Exposition, Pennsylvania, United States Of America, 9 - 15 Kasım 2018

- **Micromechanical Characterization of Nanotube Reinforced Polymers**

Taç V., Gürses E.

1st International Conference on Advances in Mechanical and Mechatronics Engineering ICAMMEN 2018, Ankara, Turkey, 8 - 09 Kasım 2018

- **A functionally graded multi-phase micromechanical model for carbon nanotube-polymer composites**

Taç V., Gürses E.

9th Multiscale Materials Modeling (MMM) Conference, Osaka, Japan, 28 Ekim - 02 Kasım 2018

- **Micromechanical Modelling of Carbon Nanotube Reinforced Composite Materials with a Functionally Graded Interphase**

Gülaşık H., Göktepe S., Gürses E.

SES 2018, Madrid, Spain, 10 - 12 Ekim 2018, pp.1

- **Yüksek Hızda Mermi Çarpışma Durumunda Zırh Kombinasyonlarının Sayısal Olarak İncelenmesi**

Başaran G., Gürses E.

VII. Ulusal Havacılık ve Uzay Konferansı (UHUK), Samsun, Turkey, 12 - 14 Eylül 2018

- **Finite element modelling of TBC failure mechanisms by using XFEM**

Bostancı S. M. , Gürses E., Çöker D.

ASME 2018 International Mechanical Engineering Congress and Exposition, IMECE 2018, Pennsylvania, United States Of America, 9 - 15 Kasım 2018, vol.1

- **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 Kasım 2017

- **DEVELOPMENT OF ARTIFICIAL NEURAL NETWORK BASED DESIGN TOOL FOR AIRCRAFT ENGINE BOLTED FLANGE CONNECTION SUBJECT TO COMBINED AXIAL AND MOMENT LOAD**

Sanlı T. V. , Gürses E., Çöker D., Kayran A.

ASME International Mechanical Engineering Congress and Exposition, Tama, Japan, 3 - 09 Kasım 2017

- **A comparative study of the polymer-nanotube interface through a reactive force field and density functional theory**

Toffoli H., Gürses E., Gülaşık H., Konuk M., Sert E., Toraman G.

International Symposium on Chemistry via Computation, Ankara, Turkey, 30 Ekim 2017

- **Development of an Artificial Neural Network Based Analysis Method for Skin-Stringer Structures**

Cankur A., Gürses E.

7th EASN International Conference on Innovation in European Aeronautics Research, Warszawa, Poland, 26 - 29

Eylül 2017

- **Laminated Shell Modeling of Sandwich Beams with Ramp Region Under Four Point Bending Loading via Structural Optimization**
Yardımcı O., Gürses E.
7th EASN International Conference on Innovation in European Aeronautics Research, Warszawa, Poland, 26 - 29 Eylül 2017
- **Alternative Finite Element Based Modeling Approaches for Carbon Nanotubes**
KOCA O., GÜLAŞIK H., GÜRSES E.
9th Ankara International Aerospace Conference, Ankara, Turkey, 20 - 22 Eylül 2017
- **Implementation of the Submodelling Technique on the Dovetail Attachments”**
Akay A. A. , Çöker D., Kayran A., Gürses E.
9th Ankara International Aerospace Conference, Ankara, Turkey, 20 - 22 Eylül 2017
- **An Artificial Neural Network Based Analysis Method for Skin- Stringer Structures**
CANKUR A., GÜRSES E.
9th Ankara International Aerospace Conference, Ankara, Turkey, 20 - 22 Eylül 2017
- **Optimization of Compliant Parts of a Trailing Edge Control Surface of a Morphing Wing**
Arslan P., Gürses E.
9th Ankara International Aerospace Conference, Ankara, Turkey, 20 - 22 Eylül 2017
- **Molecular Dynamics Simulations of Carbon Nanotube Reinforced Polymer Composites**
Toraman G., Konuk M., Sert E., Toffoli H., Gülaşık H., Gürses E.
9th Ankara International Aerospace Conference, Ankara, Turkey, 20 - 22 Eylül 2017
- **A Study on Energy Trapping Parameters of a Multistable Elastic Beam**
Zembilören A., Gürses E.
9th Ankara International Aerospace Conference, Ankara, Turkey, 20 - 22 Eylül 2017
- **Equivalent Model of a Sandwich Beam With Ramp Region Under Four Point Bending via Genetic Algorithm**
YARDIMCI O., GÜRSES E.
9th Ankara International Aerospace Conference, Ankara, Turkey, 20 - 22 Eylül 2017
- **Kirişle Güçlendirilmiş Kabuk Yapılar İçin Yapay Sinir Ağ Bazlı Analiz Yöntemi Geliştirilmesi**
CANKUR A., GÜRSES E.
XX. Ulusal Mekanik Kongresi, Bursa, Turkey, 5 - 09 Eylül 2017
- **Micromechanically Motivated Modeling of Semicrystalline Polymers**
Oktay H. E. , Gürses E., Göktepe S.
XIV International Conference on Computational Plasticity COMPLAS, Barcelona, Spain, 5 - 07 Eylül 2017
- **Damage Progression and Delamination Speeds in CFRP Under Impact Loading**
BOZKURT M. O. , TOPAÇ Ö. T. , GÜRSES E., ÇÖKER D.
20th International Conference on Composite Structures ICCS 20, Paris, France, 4 - 07 Eylül 2017
- **Multi-Scale Modelling of Carbon Nanotube Reinforced Polymer Composites**
Toraman G., Konuk M., Gülaşık H., Sert E., Toffoli H., Gürses E.
Materials Resistant to Extreme Conditions for Future Energy Systems, Kyiv, Ukraine, 12 - 14 Haziran 2017
- **Numerical Study of High Velocity Impact Response of Vehicle Armor Combination Using LS DYNA**
Başaran G., GÜRSES E.
11th European LS DYNA Conference, Salzburg, Austria, 9 - 11 Mayıs 2017
- **Birden Fazla Kararlı Hale Sahip Elastik Bir Kirişin Enerji Tuzaklama Miktarını Etkileyen Parametrelerin Belirlenmesi**
ZEMBİLÖREN A., GÜRSES E.
8. Savunma Teknolojileri Kongresi (SAVTEK), Turkey, 12 - 14 Ekim 2016
- **Eksenel Kesme ve Moment Yüğü Altındaki Flanşlar İçin Yapay Sinir Ağına Dayalı Cıvatalı Flanş Tasarım Aracı Geliştirilmesi**
Şanlı V., Akay A. A. , Yıldırım A., Gürses E., Çöker D., Kayran A.
VI. Ulusal Havacılık ve Uzay Konferansı (UHUK), Kocaeli, Turkey, 28 - 30 Eylül 2016
- **Bal Peteği Dolguya Sahip Sandviç Yapıların Bükme Yüğü Altındaki Davranışlarının Karşılaştırılması**
YARDIMCI O., GÜRSES E.

VI. Ulusal Havacılık ve Uzay Konferansı (UHUK), Kocaeli, Turkey, 28 - 30 Eylül 2016

- **EXPERIMENTAL AND NUMERICAL INVESTIGATION OF IMPACT INDUCED DAMAGE PROGRESSION IN FIBER REINFORCED COMPOSITES**
GÜRSES E., Topac T., ÇÖKER D.
ICTAM 2016, Montreal, Canada, 21 - 26 Ağustos 2016
- **EXPERIMENTAL AND COMPUTATIONAL STUDY OF DAMAGE PROCESS IN CFRP COMPOSITE BEAMS UNDER LOW VELOCITY IMPACT**
TOPAÇ Ö. T. , GÜRSES E., ÇÖKER D.
17th International Conference on Experimental Mechanics, Rodos, Greece, 3 - 07 Temmuz 2016
- **A Hybrid Morphing Trailing Edge Designed for Camber Change of the Control Surface**
Tunçöz İ. O. , Yang Y., Gürses E., Şahin M., Yaman Y., Özgen S.
SciTech2016, AIAA Science and Technology Forum 2016, California, United States Of America, 4 - 08 Ocak 2016
- **Hybrid morphing trailing edge designed for camber change of the control surface**
Tunçöz İ. O. , Yang Y., Gürses E., Şahin M., Özgen S., Yaman Y.
24th AIAA/AHS Adaptive Structures Conference, 2016, California, United States Of America, 4 - 08 Ocak 2016
- **DEVELOPMENT OF BOLTED FLANGE DESIGN TOOL BASED ON FINITE ELEMENT ANALYSIS AND ARTIFICIAL NEURAL NETWORK**
Yıldırım A., Kayran A., Gulasik H., Çöker D., Gürses E., Kayran A.
ASME International Mechanical Engineering Congress and Exposition (IMECE2015), Texas, United States Of America, 13 - 19 Kasım 2015
- **Experimental and numerical investigation of damage interaction mechanism in composites under dynamic transverse loading**
Topac O., Burak G., GÜRSES E., ÇÖKER D.
SES 52nd Annual Technical Meeting, College Park, United States Of America, 26 - 28 Ekim 2015
- **Failure Initiation and Progression in 0 90 CFRP Composite Beams Subject to Out of Plane Low velocity Impact**
ÇÖKER D., Topaç Ö. T. , GÜRSES E.
Society of Engineering Science 52nd Annual Technical Meeting, College Park, United States Of America, 26 - 28 Ekim 2015
- **Büyük Oranda Şekil Değiştirebilen Bir Hibrid Firar Kenarı Kontrol Yüzeyinin Tasarımı ve Analizleri**
İlhan Ozan T., Yosheph Y., Gürses E., Şahin M., Özgen S., Yaman Y.
UHAT2015, III. Ulusal Havacılık Teknolojisi ve Uygulamaları Kongresi, İzmir, Turkey, 23 - 24 Ekim 2015
- **Modeling of a Three-Dimensional Spherulite Microstructure in Semicrystalline Polymers**
Oktay H. E. , Gürses E.
European Conference on Numerical Mathematics and Advanced Applications (ENUMATH), Ankara, Turkey, 14 - 18 Eylül 2015, vol.112, pp.567-575
- **Finite Element Modeling of Three Dimensional Spherulite Microstructures**
Oktay H. E. , Gürses E.
European Conference on Numerical Mathematics and Advanced Applications (ENUMATH), Ankara, Turkey, 14 - 18 Eylül 2015
- **MODELING OF A CIRCULAR DOUBLE FLANGE JOINT INCLUDING CONTACT AND FRICTION EFFECTS**
Akay A. A. , Gulasik H., Yıldırım A., Çöker D., Kayran A., Gürses E.
8th Ankara International Aerospace Conference, Ankara, Turkey, 10 - 12 Eylül 2015
- **Design and Analysis of an Unmanned Aerial Vehicle Hybrid Trailing Edge Control Surface Having Camber and Decamber Capabilities**
Topaç Ö. T. , Taşdemir B., GÜRSES E., ÇÖKER D.
8th Ankara International Aerospace Conference, Ankara, Turkey, 10 - 12 Eylül 2015
- **3D Numerical Simulation of Nonenergetic Reactive Armor**
Saeidi F., Kurt M. C. , Gürses E., Çöker D.
8th Ankara International Aerospace Conference, Ankara, Turkey, 10 - 12 Eylül 2015
- **PARAMETERS CORRELATION STUDY TO INVESTIGATE THE EFFECTS OF GEOMETRIC VARIABLES ON THE SAFETY OF BOLTED FLANGE CONNECTIONS**
Yıldırım A., Akay A. A. , Gulasik H., Çöker D., Gürses E., Kayran A.

8th Ankara International Aerospace Conference, Ankara, Turkey, 10 - 12 Eylül 2015

- **PARAMETRIC STUDY FOR THE STUDY OF THE EFFECT OF CONTACT PARAMETERS FOR PLASTIC ANALYSIS OF BOLTED FLANGE CONNECTIONS**

Yılmaz S. E. , Kayran A., Gürses E., Çöker D.

8th Ankara International Aerospace Conference, Ankara, Turkey, 10 - 12 Eylül 2015

- **Experimental Investigation of Impact Induced Failure Process in CFRP Composite Laminates**

Topaç Ö. T. , Taşdemir B., GÜRSES E., ÇÖKER D.

8th Ankara International Aerospace Conference, Ankara, Turkey, 10 - 12 Eylül 2015

- **Design and Analyses of an Unmanned Aerial Vehicle Hybrid Trailing Edge Control Surface Having Camber and Decamber Capabilities**

İlhan Ozan T., Yosheph Y., Gürses E., Şahin M., Özgen S., Yaman Y.

AIAC2015, 8th Ankara International Aerospace Conference, Ankara, Turkey, 10 - 12 Eylül 2015

- **Numerical investigation of impact induced damage progression in composites and correlations with experiments**

Topac O., Burak G., GÜRSES E., ÇÖKER D.

5th ECCOMAS Thematic Conference on the Mechanical Response of Composites, Bristol, United Kingdom, 7 - 09 Eylül 2015

- **Finite Element Modeling of Textured Surfaces of Ultra High Molecular Weight Tibial Insert**

Oktay H. E. , Gürses E.

9th European Solid Mechanics Conference ESMC 2015, Madrid, Spain, 6 - 10 Temmuz 2015

- **Hibrit Bir Kontrol Yüzeyinin Hesaplamalı Akışkanlar Dinamiği Destekli Yapısal Analizi**

Arslan P., Uğur K., Harun T., İlhan Ozan T., Yosheph Y., Özgen S., Gürses E., Şahin M., Yaman Y.

UMTS2015, Uluslararası Katılımlı 17. Makina Teorisi Sempozyumu, İzmir, Turkey, 14 - 17 Haziran 2015

- **Experimental and Computational Investigation of Out-of-Plane Low Velocity Impact Behavior of CFRP Composite Plates**

Topac O. T. , Tasdemir B., Gozluklu B., GÜRSES E., ÇÖKER D.

Annual Conference and Exposition of Society-for-Experimental-Mechanics on Experimental and Applied Mechanics, California, United States Of America, 8 - 11 Haziran 2015, vol.8, pp.9-16

- **Experimental and computational investigation of out of plane low velocity impact behaviour of CFRP composite plates**

Topaç Ö. T. , Taşdemir B., Gözlüklü B., GÜRSES E., ÇÖKER D.

SEM 2015 Conference & Exposition, Costa Mesa, CA, United States Of America, 8 - 11 Haziran 2015

- **A Hybrid Trailing Edge Control Surface Capable of Camber and Decamber Morphing**

İlhan Ozan T., Yosheph Y., Gürses E., Şahin M., Özgen S., Yaman Y.

SMART2015, 7th ECCOMAS Thematic Conference on Smart Structures and Materials, Ponta-Delgada, Portugal, 3 - 06 Haziran 2015

- **Bir Hibrit Firar Kenarı Kontrol Yüzeyinin Tasarımı ve Analizi**

Arslan P., Uğur K., Harun T., İlhan Ozan T., Yosheph Y., Gürses E., Şahin M., Özgen S., Yaman Y.

TMMOB Makina Mühendisleri Odası, VIII. Ulusal Uçak, Havacılık ve Uzay Mühendisliği Kurultayı, Eskişehir, Turkey, 22 - 23 Mayıs 2015

- **Design of Experiments Study for Determination for the Study of the Effect of Contact Parameters in Bolted Flange Connections**

Yılmaz S. E. , Özcihan T., Kayran A., Gürses E., Çöker D.

International Conference on Advances in Mechanical Engineering (ICAME 2015), İstanbul, Turkey, 13 - 15 Mayıs 2015

- **Low velocity impact damage on laminated composites simulations and correlations with tests**

Topac O., Gozluklu B., GÜRSES E., ÇÖKER D.

International Conference on Advances in Composite Materials and Structures, İstanbul, Turkey, 13 - 15 Nisan 2015

- **Structural Analysis of an Unconventional Hybrid Control Surface of a Morphing Wing**

Arslan P., Uğur K., Harun T., İlhan Ozan T., Yosheph Y., Gürses E., Şahin M., Özgen S., Yaman Y.

ICAST2014: 25th International Conference on Adaptive Structures and Technologies, The Hague, Netherlands, 6 - 08 Ekim 2014

- **Katmanlı Kompozitlerde Düşük Hızlı Darbe Davranış Analizi**

Topaç Ö. T. , Taşdemir B., GÜRSES E., ÇÖKER D.

V. Ulusal Havacılık ve Uzay Konferansı (UHUK), Kayseri, Turkey, 8 - 10 Eylül 2014

• **Konvansiyonel Olmayan İki Farklı Kontrol Yüzeyinin Yapısal Özelliklerinin Değerlendirilmesi ve Karşılaştırılması**

Arslan P., Uğur K., Harun T., İlhan Ozan T., Yosheph Y., Gürses E., Şahin M., Özgen S., Yaman Y.
UHUK2014, V. Ulusal Havacılık ve Uzay Konferansı, Kayseri, Turkey, 8 - 10 Eylül 2014

• **Modeling of Spherulite Microstructures in Semicrystalline Polymers**

Oktay H. E. , Gürses E.

IUTAM Symposium on Innovative Numerical Approaches for Materials and Structures in Multi-Field and Multi-Scale Problems, Siegen, Germany, 1 - 04 Eylül 2014

• **Konvansiyonel ve Konvansiyonel Olmayan Kontrol Yüzeyine Sahip İnsansız Hava Aracı Kanatlarının Aerodinamik Özelliklerinin Değerlendirilmesi**

Topaç Ö. T. , Taşdemir B., GÜRSES E., ÇÖKER D.

7. Savunma Teknolojileri Kongresi Kongresi SAVTEK 2014, Ankara, Turkey, 25 - 27 Haziran 2014

• **Çukur İmla Şişen Zırh Etkileşiminin Sayısal Yöntemlerle İncelenmesi**

Kurt M. C. , Saeidi F., Gürses E., Çöker D.

7. Savunma Teknolojileri Kongresi Kongresi SAVTEK 2014, Ankara, Turkey, 25 - 27 Haziran 2014

• **Konvansiyonel ve Konvansiyonel Olmayan Kontrol Yüzeyine Sahip İnsansız Hava Aracı Kanatlarının Ağırlıklarının İncelenmesi**

Topaç Ö. T. , Taşdemir B., GÜRSES E., ÇÖKER D.

7. Savunma Teknolojileri Kongresi Kongresi SAVTEK 2014, Ankara, Turkey, 25 - 27 Haziran 2014

• **Konvansiyonel ve Konvansiyonel Olmayan Kontrol Yüzeylerine Sahip İnsansız Hava Aracı Kanatlarının Ağırlıklarının İncelenmesi**

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