

Prof. ZEYNEP GÜL APALAK

Personal Information

Office Phone: [+90 352 207 6666](tel:+903522076666) Extension: 32152

Email: apalakz@erciyes.edu.tr

Web: <http://aves.erciyes.edu.tr/apalakz/>

International Researcher IDs

ORCID: 0000-0002-5777-0239

Yoksis Researcher ID: 207205

Education Information

Doctorate, Erciyes University, Fen Bilimleri, Makina, Turkey 1990 - 1996

Postgraduate, Erciyes University, Fen Bilimleri, Makina, Turkey 1989 - 1990

Undergraduate, Erciyes University, Mühendislik Fakültesi, Makina, Turkey 1983 - 1987

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Yapıştırıcı ile Birleştirilmiş T-Tipi Bağlantıların Sonlu Elemanlar Metodu Kullanılarak Analiz ve Tasarımı, Erciyes Üniversitesi, Mühendislik Fakültesi, Makina, 1996

Postgraduate, Derin Etkili Laser Nokta Kaynağı Esnasında Ortaya Çıkan Isı Transferi Modelinin İncelenmesi, Erciyes Üniversitesi, Mühendislik Fakültesi, Makina, 1990

Research Areas

Technical Sciences, Mechanical Engineering, Mechanical, Solid Mechanics

Academic Titles / Tasks

Professor, Erciyes University, Mühendislik Fakültesi, Makina, 2015 - Continues

Associate Professor, Erciyes University, Mühendislik Fakültesi, Makina, 2009 - 2015

Assistant Professor, Erciyes University, Mühendislik Fakültesi, Makina, 1997 - 2009

Research Assistant PhD, Erciyes University, Mühendislik Fakültesi, Makina, 1996 - 1997

Research Assistant, Erciyes University, Mühendislik Fakültesi, Makina, 1988 - 1996

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Experimental study on structure optimization of functionally graded sandwich plates under ballistic**

impact

AYDIN M., APALAK M. K., APALAK Z. G.

JOURNAL OF COMPOSITE MATERIALS, vol.54, no.26, pp.3967-3980, 2020 (Peer-Reviewed Journal)

- II. **Free vibration analysis of an adhesively bonded functionally graded double containment cantilever joint**
APALAK Z. G. , EKİCİ R., Yildirim M., APALAK M. K.
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.28, no.12, pp.1117-1139, 2014 (Peer-Reviewed Journal)
- III. **Layer Optimization for Maximum Fundamental Frequency of Rigid Point-Supported Laminated Composite Plates**
APALAK Z. G. , APALAK M. K. , EKİCİ R., YILDIRIM M.
POLYMER COMPOSITES, vol.32, no.12, pp.1988-2000, 2011 (Peer-Reviewed Journal)
- IV. **Elastic stresses in an adhesively bonded functionally graded double containment cantilever joint in tension**
Apalak Z. G. , Ekici R.
JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, vol.26, no.13, pp.1291-1318, 2007 (Peer-Reviewed Journal)
- V. **Thermal and geometrically nonlinear stress analyses of an adhesively bonded composite tee joint with double support**
Apalak M. K. , Apalak Z. G. , Gunes R.
JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS, vol.17, no.2, pp.103-136, 2004 (Peer-Reviewed Journal)
- VI. **Steady-state thermal and geometrical adhesively bonded tee joint non-linear stress analysis of an with double support**
Apalak M. K. , Apalak Z. G. , Gunes R., Karakaş E. S.
INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES, vol.23, no.2, pp.115-130, 2003 (Peer-Reviewed Journal)
- VII. **Thermal non-linear elastic stress analysis of an adhesively bonded T-joint**
Apalak M. K. , Apalak Z. G. , Gunes R.
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.17, no.7, pp.995-1016, 2003 (Peer-Reviewed Journal)
- VIII. **Analysis and design of adhesively bonded modified double containment corner joints .2.**
Apalak M. K. , Davies R., Apalak Z. G.
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.10, no.10, pp.907-937, 1996 (Peer-Reviewed Journal)
- IX. **Analysis and design of tee joints with double support**
Apalak Z. G. , Apalak M. K. , Davies R.
INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES, vol.16, no.3, pp.187-214, 1996 (Peer-Reviewed Journal)
- X. **ANALYSIS AND DESIGN OF ADHESIVELY-BONDED DOUBLE-CONTAINMENT CORNER JOINTS**
APALAK M. K. , Davies R., APALAK Z. G.
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.9, no.2, pp.267-293, 1995 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of Number of Layers on the Ballistics Performance of Functionally Graded Sandwich Plates**
AYDIN M., APALAK M. K., APALAK Z. G.
14th International Symposium on Functionally Graded Materials, Bayreuth, Germany, 18 - 21 September 2016, pp.215-218
- II. **Failure analysis of an adhesively bonded carbon fiber reinforced polymeric (CFRP) composite single lap joint under flexure loads**
APALAK Z. G. , GENÇ M. S. , APALAK M. K.
7th International Fracture Conference IFC 2005, Kocaeli, Turkey, Turkey, 1 - 04 October 2005, pp.1
- III. **Damage zone growth in an adhesively bonded composite single lap joint**

APALAK Z. G. , GENÇ M. S. , APALAK M. K.

The 11th International Conference on Machine Design and Production UMTIK 2004, METU, Antalya, Turkey, Turkey, 1 - 04 October 2004, pp.1

IV. Effect of Tapering Adherend Ends of Adhesive Single Lap Joints between Circular Tubes Loaded in Tension

APALAK M. K. , Davies R., APALAK Z. G.

The 2nd National Computational Mechanics Conference UHEM 96, Karadeniz Technical University, Trabzon, Turkey, Trabzon, Turkey, 1 - 04 September 1996, pp.1

V. Stress Analysis of Adhesive Single Lap Joints between Circular Tubes Loaded in Tension

APALAK M. K. , APALAK Z. G. , Davies R.

The 2nd National Computational Mechanics Conference UHEM 96, Trabzon, Turkey, 1 - 04 September 1996, pp.1

Supported Projects

APALAK Z. G. , ÖZDEMİR A. T. , ÇALIŞKAN U., Project Supported by Higher Education Institutions, Kompozit malzemelerin düşük hızlı darbe davranışlarının incelenmesinde kullanılan ultrasonik muayene yapan cihazın tasarımı ve imalatı, 2018 - 2019

APALAK Z. G. , AL-RUBAYE M., Project Supported by Higher Education Institutions, Low velocity impact behavior of glass fiber and carbon fiber reinforcement composites, 2017 - 2018

APALAK Z. G. , APALAK M. K. , AYDIN M., Project Supported by Higher Education Institutions, Fonksiyonel Kademelendirilmiş Sandviç Plakaların Üretim Süreçlerinin En İyileştirilerek Balistik Performanslarının İncelenmesi, 2016 - 2017

APALAK Z. G. , Project Supported by Higher Education Institutions, Yapıştırıcı ile Birleştirilmiş Tek Bindirme Bağlantılarının Düşük Hızlı Darbe Davranışlarının Deneysel ve Sayısal Olarak İncelenmesi, 2011 - 2016

APALAK M. K. , APALAK Z. G. , EKİCİ R., YILDIRIM M., Project Supported by Higher Education Institutions, KATLANMAMIŞ KOMPOZİT YAPILARDA PERİODİK YÜKLER ALTINDA HASAR OLUŞUMU VE GELİŞİMİNİN DOĞRUSAL OLMAYAN BÜNYE MODELLERİ İLE BELİRLENMEİ, 2006 - 2013

APALAK Z. G. , LİVKEBABCİ D., EKİCİ R., Project Supported by Higher Education Institutions, YAPIŞTIRICIYLA BİRLEŞTİRİLMİŞ TABAKALI KOMPOZİT T BAĞLANTILARDA SERBEST TİTREŞİMLERİN AÇIK SİSTEM KONTROL YAKLAŞIMIYLA SÖNÜMLENMEİ, 2007 - 2008

APALAK M. K. , APALAK Z. G. , GÜNEŞ R., Project Supported by Higher Education Institutions, ÇOK KATMANLI YADA FONKSİYONEL OLARAK KADEMELENDİRİLMİŞ KOMPOZİT PLAKALARDA ISIL ARTIK GERİLMELERİN ANALİZİ, 2004 - 2006

APALAK M. K. , GENÇ M. S. , APALAK Z. G. , DEMİRTAŞ H., Project Supported by Higher Education Institutions, YAPIŞTIRICI İLE BİRLEŞTİRİLMİŞ FİBER DESTEKLİ KOMPOZİT BİNDİRME BAĞLANTILARININ HASAR BÖLGESİ MODELİNE BAĞLI OPTİMUM TASARIMI, 2004 - 2005

Metrics

Publication: 16

Citation (WoS): 126

Citation (Scopus): 120

H-Index (WoS): 8

H-Index (Scopus): 7