

Poster Session 1, Thursday August 22nd

- 1 - Formulation and implementation of a new porous plasticity model
Can Erdoğan, Izzet Tarik Tandoğan, Alan Cocks, Tuncay Yalçinkaya
- 2 - Development of a micromechanics based cohesive zone model and application for ductile fracture
Izzet Tarik Tandoğan, Alan Cocks, Tuncay Yalçinkaya
- 3 - A micromechanics based numerical investigation of dual phase steels
Tuncay Yalçinkaya, Gönül Öykü Güngör, Serhat Onur Çakmak and Cihan Tekoğlu
- 4 - Fracture analysis of round-tip V-notched components made of rubber-like materials using averaged strain energy density criterion
A. H. Benvidi, Majid R. Ayatollahi and M. Heydari-Meybodi
- 5 - Finite Element Modelling of TBC Failure Mechanisms by Using XFEM and CZM
Safa Mesut Bostanci, Demirkan Çöker and Ercan Gürses
- 6 - A phase-field approach to viscoelastic fracture in rubbery polymers
Funda Aksu Denli, Osman Gültekin and Hüsnü Dal
- 7 - Implementation and Verification of Dirlik's Damage Method for the Random Vibration Fatigue of Notched Beams
Gurzap Ismail Demirel and Altan Kayran
- 8 - Materials Selection for Aircraft Skin Panels by Integrating Multiple Constraints Design with Computational Evaluations
Abdullah Duman, Baransel Çelensü, Ömer Bahadır Öçal and Hande Yavuz
- 9 - Damage Evolution in Dual Phase Steels at Different Strain Rates and Temperatures
Merve Çobanoğlu, Rasim Köksal Ertan, Caner Şimşir and Mert Efe
- 10 - Computational Investigation of dynamic fracture in curved laminates
Tamer Tahir Ata and Demirkan Coker
- 11 - Investigating Energy Absorption Accessible by Plastic Deformation of a Novel Seismic Damper using Artificial Neural Network
Bahman Paygozar and Shahram Abbasnejad Dizaji
- 12 - Development of a regression model for the life assessment of open-hole specimens with double through cracks utilizing stress intensity factor calculations via XFEM
S.Sohrab Heidari Shabestari and Altan Kayran
- 13 - Numerical Investigation of Drop Test of Combi Boiler Structure
Yigit Gurler, Ayda Ramyar, Erden Akdarı, Alper Taşdemirci

Poster Session 2, Friday August 22nd

1 - Micromechanical Modeling of Localization and Necking in Polycrystalline Dual Phase Steels

Tuncay Yalcinkaya and Serhat Onur Çakmak

2 - An Investigation on Mechanical Behaviour of Horizontal Axis Wind Turbine (HWAT) Blade With Various Wind Speed

Kadir Kaya and Erdem Koç

3 - Comparison of residual stress fields of as-forged and heat-treated fasteners by the contour method

M. Burak Toparli, N. Emrah Kılınçdemir, Baris Tanrikulu, Sezgin Yurtdaş and Umut Ince

4 - Evaluation of Different Crack |Growth Retardation Models under Single Overloads Using Al-7075 Material

Mehmet Yaren, Ali Ayhan and Sedat Iric

5 - Three-Dimensional Mixed Mode Stress Intensity Factors for Inclined Elliptical Surface Cracks in Plates under Uniform Tensile Load

Hakan Sahin and Ali Ayhan

6 - Modelling strength and failure of the bolted joints of a fiber reinforced epoxy composite using rate dependent Mat_162 composite model

Mustafa Guden, Mustafa Sarıkaya, Alper Taşdemirci, Cem Genç, Kurtuluş Ersoy and Özgür Serin

7 - Delamination Analysis of Tapered Composite Laminates Using Cohesive Elements

Saeid Hosseinpour Dashatan, Levend Parnas and Demirkan Coker

8 - Bending Behavior of Laminated Composite Plates with Embedded Cracks by Using Refined Zigzag Theory

Mehmet Dorduncu and Mohammed Nasseer

9 - Simulation of Drop-Weight Impact Test on Composite Laminates using Finite Element Method

Miraç Onur Bozkurt, Demirkan Coker and Levend Parnas

10 - Micromechanical Aspects of Amorphous Plasticity through a Strain Gradient Crystal Plasticity Framework

Aytekin Demirci, Tuncay Yalçinkaya and Stefan Sandfeld

11 - Effect of Repair Processes on the Mechanical Performance of Composites used in Aerospace Applications

Emine Evren Sonat and Sezer Özerinç

12 - Finite Element Analysis of Interfacial Shear Strength Measurements Performed on Nanolayered Metals

Mehmet Kepenekci and Sezer Özerinç

13 - Investigation on the effect of pulsating pressure to the plastic deformation behavior of AISI 304 stainless steel during sheet hydro-bulging

Osman Ozturk and Huseyin Selcuk Halkaci

14 - On the Fracture Surface Morphology under Ductile Plate Tearing at Steady State

Cihan Tekoğlu, Şahin Çelik and Kim Lau Nielsen