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Education Information

Doctorate, Hacettepe University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, Turkey 2016 - Continues

Postgraduate, Hacettepe University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, Turkey 2014 - 2016

Undergraduate, Tobb University Of Economics And Technology, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey 2010 - 2014

Foreign Languages

Spanish, A1 Beginner

German, B1 Intermediate

English, C1 Advanced

Research Areas

Mechanical Engineering, Mechanical, Solid Mechanics, Fracture Mechanics, Finite Element Methods, Mechanical Testing

Academic Titles / Tasks

Research Assistant, Hacettepe University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2017 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A brief review on the mechanical behavior of nonwoven fabrics**
YILMAZ K. B., SABUNCUOĞLU B., YILDIRIM B., Silberschmidt V. V.
JOURNAL OF ENGINEERED FIBERS AND FABRICS, vol.15, 2020 (SCI-Expanded)
- II. **Investigation of cold extrusion process by coupled thermo-mechanical finite element analysis**
GÖRTAN M. O., TÜRKBAŞ O. S., YILMAZ K. B., YILDIRIM B.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, no.1, pp.323-335, 2020 (SCI-Expanded)
- III. **Sliding frictional contact analysis of a monoclinic coating/isotropic substrate system**
YILMAZ K. B., ÇÖMEZ İ., Guler M. A., YILDIRIM B.
MECHANICS OF MATERIALS, vol.137, 2019 (SCI-Expanded)
- IV. **On the plane frictional contact problem of a homogeneous orthotropic layer loaded by a rigid cylindrical stamp**
ÇÖMEZ İ., YILMAZ K. B., Guler M. A., YILDIRIM B.
ARCHIVE OF APPLIED MECHANICS, vol.89, no.7, pp.1403-1419, 2019 (SCI-Expanded)

- V. **The effect of orthotropic material gradation on the plane sliding frictional contact mechanics problem**
YILMAZ K. B., Comez L., Guler M. A., YILDIRIM B.
JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN, vol.54, no.4, pp.254-275, 2019 (SCI-Expanded)
- VI. **Mechanics of frictional contact for an arbitrary oriented orthotropic material**
ÇÖMEZ İ., YILMAZ K. B.
ZAMM-ZEITSCHRIFT FÜR ANGEWANDTE MATHEMATIK UND MECHANIK, vol.99, no.3, 2019 (SCI-Expanded)
- VII. **Analytical and finite element solution of the sliding frictional contact problem for a homogeneous orthotropic coating-isotropic substrate system**
YILMAZ K. B., ÇÖMEZ İ., Guler M. A., YILDIRIM B.
ZAMM-ZEITSCHRIFT FÜR ANGEWANDTE MATHEMATIK UND MECHANIK, vol.99, no.3, 2019 (SCI-Expanded)
- VIII. **Frictional receding contact problem for a graded bilayer system indented by a rigid punch**
YILMAZ K. B., ÇÖMEZ İ., YILDIRIM B., Guler M. A., EL-BORGİ S.
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, vol.141, pp.127-142, 2018 (SCI-Expanded)
- IX. **On the analytical and finite element solution of plane contact problem of a rigid cylindrical punch sliding over a functionally graded orthotropic medium**
Guler M. A., KÜÇÜKSUCU A., YILMAZ K. B., YILDIRIM B.
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, vol.120, pp.12-29, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Frictionless contact problem between a rigid moving punch and a homogeneous layer resting on a Winkler foundation**
ÇÖMEZ İ., YILMAZ K. B., GÜLER M. A., YILDIRIM B.
Journal of Structural Engineering Applied Mechanics, vol.2, pp.75-87, 2019 (Peer-Reviewed Journal)
- II. **Jant İçi Elektrik Motorunun Kritik Parçalarının Yorulma Analizi**
Çakıcı U. G., BAŞLAMIŞLI S. Ç., SOLMAZ S., YILMAZ K. B., YILDIRIM B.
Mühendis ve Makina, vol.60, pp.132-146, 2019 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Adaptive Control of Nonlinear Spur Gear Dynamics with Parametric Disturbance Rejection**
DOĞRUER C. U., YILMAZ K. B., YILDIRIM B.
2019 23rd International Conference on System Theory, Control and Computing (ICSTCC), Sinaia, Romania, 9 - 11 October 2019, pp.373-378
- II. **DAİRESEL ZIMBA İLE İZOTROP YARIM DÜZLEME BASTIRILAN ORTOTROP TABAKANIN SÜRTÜNME Lİ TEMAS PROBLEMİ**
YILMAZ K. B., ÇÖMEZ İ., GÜLER M. A., YILDIRIM B.
21. Ulusal Mekanik Kongresi, Niğde, Turkey, 2 - 06 September 2019, pp.687-696
- III. **FRICIONAL CONTACT PROBLEM BETWEEN A FUNCTIONALLY GRADED ORTHOTROPIC LAYER AND A RIGID FLAT PUNCH**
YILMAZ K. B., ÇÖMEZ İ., GÜLER M. A., YILDIRIM B.
International Civil Engineering Architecture Conference, Trabzon, Turkey, 17 - 20 April 2019
- IV. **FRICIONAL SLIDING CONTACT PROBLEM OF AN ORTHOTROPIC LAYER PRESSED BY A RIGID PARABOLIC PUNCH**
YILMAZ K. B., ÇÖMEZ İ., GÜLER M. A., YILDIRIM B.
International Civil Engineering Architecture Conference, Trabzon, Turkey, 17 - 20 April 2019
- V. **Derivation of crush force versus deformation behaviour of vehicles at different impact speeds**
HİMMETOĞLU S., YILMAZ K. B., YILDIRIM B., TEKİN A.

22nd International Scientific on Conference Transport Means 2018, Trakai, Lithuania, 3 - 05 October 2018, pp.49-56

VI. **Mixed-mode stress intensity factors in a homogeneous orthotropic medium loaded by a frictional sliding rigid flat stamp**

YILMAZ K. B., Güler M., YILDIRIM B.

17th International Conference on Fracture and Damage Mechanics, FDM 2018, Bangkok, Thailand, 4 - 06 September 2018, pp.179-184

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