

Prof. HASAN SOFUOĞLU

Personal Information

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Address: KTÜ Makina Mühendisliği Bölümü, Ortahisar-TRABZON

International Researcher IDs

ScholarID: 06odBqEAAAAJ

ORCID: 0000-0002-8433-4045

Publons / Web Of Science ResearcherID: AAF-6327-2019

ScopusID: 06602481511

Yoksis Researcher ID: 2940

Education Information

Doctorate, Texas Tech University, Mühendislik Fakültesi, Makina Mühendisliği, United States Of America 1990 - 1993

Postgraduate, Texas Tech University, Mühendislik Fakültesi, Makina Mühendisliği, United States Of America 1988 - 1990

Undergraduate, Karadeniz Technical University, Mühendislik-Mimarlık Fakültesi, Makina Mühendisliği, Turkey 1981 - 1985

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Physical Modeling and Finite Element Analysis of Friction Encountered in Large Deformation Processes, Texas Tech University, Graduate School, , Makina Mühendisliği, , 1993

Postgraduate, Physical Modeling of Extrusion Process, Texas Tech University, Graduate School, , Makina Mühendisliği, , 1990

Research Areas

Mechanical Engineering, Tribology, Plastic Forming Methods, Mechanical, Solid Mechanics, Finite Element Methods, Biomechanics, Mechanical Testing, Continuous Mechanics, Engineering and Technology

Academic Titles / Tasks

Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2007 - Continues

Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2001 - 2007

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 1998 - 2001

Researcher, Texas Tech University, Mühendislik Fakültesi, Makina Mühendisliği, 1997 - 1998

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 1993 - 1997

Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 1986 - 1993

Academic and Administrative Experience

Head of Department, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2011 - Continues

Fakülte Yönetim Kurulu Üyesi, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2012 - 2015

Gumushane University, Mühendislik Fakültesi, Makina Mühendisliği, 2008 - 2009

Karadeniz Technical University, Fen Bilimleri Enstitüsü, 2004 - 2008

Manager of Research and Application Center, Karadeniz Technical University, Rektörlük, 2000 - 2008

Karadeniz Technical University, Mühendislik Fakültesi/Makina Mühendisliği, Makina Mühendisliği, 2005 - 2007

Fakülte Yönetim Kurulu Üyesi, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2005 - 2007

Karadeniz Technical University, Mühendislik-Mimarlık Fakültesi/Makina Mühendisliği/Mekanik, Makina Mühendisliği, 1999 - 2001

Karadeniz Technical University, Mühendislik-Mimarlık Fakültesi/Makina Mühendisliği, 1999 - 2000

Courses

Advanced Engineering Dynamics, Postgraduate, 2023 - 2024, 2021 - 2022, 2012 - 2013, 2011 - 2012, 2009 - 2010

Mechanics of Materials II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001, 1999 - 2000, 1998 - 1999

Dynamics, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005

Mechanics of Materials I, Undergraduate, 2022 - 2023, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001

Biomechanics, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Advanced Mechanics of Solids, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001, 1999 - 2000, 1998 - 1999, 1997 - 1998, 1996 - 1997, 1995 - 1996, 1994 - 1995

Dynamics, Undergraduate, 2021 - 2022, 2020 - 2021

Theory of Thermal Stresses, Doctorate, 2021 - 2022, 2001 - 2002

Statics, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 2000 - 2001, 1999 - 2000, 1998 - 1999

Theory of Plasticity, Doctorate, 2018 - 2019, 2016 - 2017, 2015 - 2016, 2013 - 2014, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2002 - 2003, 2000 - 2001, 1998 - 1999, 1996 - 1997, 1994 - 1995

Engineering Mechanics, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013

Mechanics of Materials, Undergraduate, 2016 - 2017, 2010 - 2011, 2009 - 2010, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2001 - 2002, 1998 - 1999

Statics, Undergraduate, 2010 - 2011, 2009 - 2010, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Statics and Mechanics of Materials, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008

Finite Element Method, Postgraduate, 2007 - 2008

Computer Aided Design, Undergraduate, 2004 - 2005, 2003 - 2004
Makina Elemanları , Undergraduate, 1999 - 2000
Machine elements I, Undergraduate, 1999 - 2000
Introduction to Finite Element Method, Undergraduate, 1998 - 1999
Design of Experiments, Postgraduate, 1997 - 1998

Advising Theses

Sofuoğlu H., Design and Optimization of the Composite Automobile Frontal Bumper System under High-Speed Impact Loading, Doctorate, S.ÇAM(Student), 2022
Sofuoğlu H., Determination of Design criteria of temporomandibular joint prosthesis using Finite Element Method: Self-pinned TMJ prosthesis, Doctorate, S.KÖSE(Student), 2019
Sofuoğlu H., Investigation on Transversal Weld Characteristics (Charge Weld) for Structural Profile Production and Influence of Die Geometry on the Transversal Weld Length, Postgraduate, S.MUTLU(Student), 2019
Sofuoğlu H., Cora Ö. N., The investigation of micro formability of superplastic ZN-22Al alloy on room temperature, Doctorate, M.Emin(Student), 2017
Sofuoğlu H., Cora Ö. N., Numerical and Experimental Investigation of Metal Powder Compaction Process, Doctorate, F.GÜNER(Student), 2014
Sofuoğlu H., Investigation of the effect of prosthetic material filling and abutment length on the treatment of damaged mandibula using finite element method, Postgraduate, S.Köse(Student), 2013
Sofuoğlu H., The investigation of a human hip joint under the effect of different loading by using finite element method, Postgraduate, M.Emin(Student), 2012
Sofuoğlu H., The investigation of a three dimensional human head under the effect of different impact loading by finite element method, Postgraduate, H.Ünal(Student), 2007
Sofuoğlu H., Mechanical and termomechanical analysis of elastic-plastic semi-infinite medium in sliding contact with fractal surface, Doctorate, A.Özer(Student), 2006
Sofuoğlu H., The investigation of flat shell elements by using the refined finite element method, Doctorate, H.Gedikli(Student), 2005
Sofuoğlu H., Determination of the coefficient of friction in hot metal forming process, Postgraduate, A.Göksel(Student), 2003
Sofuoğlu H., The application of the finite element method to two dimensional metal forming processes, Postgraduate, H.İbrahim(Student), 2000
Sofuoğlu H., Experimentally and numerically determination of the coefficient of friction in metal forming processes, Postgraduate, H.Gedikli(Student), 2000
Sofuoğlu H., Modeling of two dimensional extrusion process utilizing model material, Postgraduate, A.Özer(Student), 1998

Jury Memberships

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, November, 2020
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Recep Tayyip Erdoğan Üniversitesi, June, 2020
Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, January, 2020
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Bursa Teknik Üniversitesi, December, 2019
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Ondokuz Mayıs Üniversitesi, November, 2019
Doctorate, Doctorate, Kırklareli Üniversitesi, October, 2019
Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, September, 2019

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, May, 2019
Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, May, 2019
Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, April, 2019
Associate Professor Exam, Associate Professor Exam, Dokuz Eylül Üniversitesi, March, 2019
Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, February, 2019
Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, January, 2019
Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, December, 2018
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, July, 2018
Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, January, 2018
Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, October, 2017
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, September, 2017
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, August, 2017
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, July, 2017
Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, June, 2017
Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, June, 2017
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, May, 2017
Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, June, 2016
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, September, 2015
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, July, 2015
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Giresun Üniversitesi, April, 2015
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, December, 2014
Associate Professor Exam, Associate Professor Exam, Bursa Teknik Üniversitesi, October, 2014
Associate Professor Exam, Associate Professor Exam, İstanbul Medipol Üniversitesi, October, 2014
Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, October, 2014
Associate Professor Exam, Associate Professor Exam, Doğuş Üniversitesi, October, 2014
Associate Professor Exam, Associate Professor Exam, Pamukkale Üniversitesi, October, 2014
Associate Professor Exam, Associate Professor Exam, Hitit Üniversitesi, October, 2014
Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, October, 2014
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, June, 2014
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Başkent Üniversitesi, April, 2014
Associate Professor Exam, Associate Professor Exam, Karabük Üniversitesi, April, 2014
Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, September, 2013
Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, July, 2013
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, May, 2013
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, January, 2013
Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, December, 2012
Associate Professor Exam, Associate Professor Exam, Fırat Üniversitesi, October, 2012
Associate Professor Exam, Associate Professor Exam, Niğde Ömer Halisdemir Üniversitesi, October, 2012
Associate Professor Exam, Associate Professor Exam, Batman Üniversitesi, October, 2012
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi,

April, 2012

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Yıldız Teknik Üniversitesi, April, 2012

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, March, 2012

Associate Professor Exam, Associate Professor Exam, Pamukkale Üniversitesi, October, 2011

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, October, 2011

Associate Professor Exam, Associate Professor Exam, Trakya Üniversitesi, October, 2011

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, June, 2011

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, May, 2011

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Avrasya Üniversitesi, April, 2011

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, April, 2011

Associate Professor Exam, Associate Professor Exam, Karadeniz Teknik Üniversitesi, April, 2011

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, January, 2011

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, January, 2011

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, October, 2010

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, October, 2010

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, September, 2010

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, August, 2010

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, July, 2010

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, June, 2010

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, June, 2010

Associate Professor Exam, Associate Professor Exam, Boğaziçi Üniversitesi, April, 2010

Associate Professor Exam, Associate Professor Exam, Bursa Uludağ Üniversitesi, April, 2010

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, March, 2010

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, January, 2010

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, September, 2009

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, September, 2009

Associate Professor Exam, Associate Professor Exam, Bursa Uludağ Üniversitesi, April, 2009

Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, April, 2009

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, March, 2009

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, February, 2009

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, October, 2008

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Giresun Üniversitesi, February, 2008

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, January, 2008

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Karadeniz Teknik Üniversitesi, January, 2008

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, September, 2007

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, February, 2007

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, February, 2007

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, February, 2007

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Yozgat Bozok Üniversitesi, December, 2006

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Giresun Üniversitesi, December, 2006

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, May, 2006

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, April, 2006

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, March, 2006

Doctorate, Doctorate, Atatürk Üniversitesi, September, 2005

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, September, 2005

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, March, 2005

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, March, 2005

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, March, 2005

Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, September, 2002

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An investigation on crashworthiness performance of adhesive bonding in automobile hybrid front bumper system subjected to high-speed impact**
Çam S., Sofuoğlu H.
International Journal of Impact Engineering, vol.173, 2023 (SCI-Expanded)
- II. **Coupled effect of thickness optimization and plastic forming history on crashworthiness performance of thin-walled square tube**
SOFUOĞLU H., ÇAM S.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.117, no.9-10, pp.2935-2948, 2021 (SCI-Expanded)
- III. **Micro Deep Drawability of the Superplastic Zn-22Al Alloy at a High Strain Rate and Room Temperature**
Cetin M. E., CORA Ö. N., SOFUOĞLU H.
JOURNAL OF ENGINEERING MATERIALS AND TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.142, no.1, 2020 (SCI-Expanded)
- IV. **Effects of friction models on the compaction behavior of copper powder**
Guner F., CORA Ö. N., SOFUOĞLU H.
TRIBOLOGY INTERNATIONAL, vol.122, pp.125-132, 2018 (SCI-Expanded)
- V. **A statistical approach to explore cemented total hip reconstruction performance**
Cetin M. E., SOFUOĞLU H.
AUSTRALASIAN PHYSICAL & ENGINEERING SCIENCES IN MEDICINE, vol.41, no.1, pp.177-188, 2018 (SCI-Expanded)
- VI. **Effects of grain size on room temperature deformation behavior of Zn-22Al alloy under uniaxial and biaxial loading conditions**
CETIN M. E., DEMIRTAS M., SOFUOĞLU H., CORA Ö. N., PÜRÇEK G.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.672, pp.78-87, 2016 (SCI-Expanded)
- VII. **An investigation of contact interactions in powder compaction process through variable friction models**
Guner F., SOFUOĞLU H., CORA Ö. N.
TRIBOLOGY INTERNATIONAL, vol.96, pp.1-10, 2016 (SCI-Expanded)
- VIII. **An investigation on mechanical failure of hip joint using finite element method**
SOFUOĞLU H., CETIN M. E.
BIOMEDICAL ENGINEERING-BIOMEDIZINISCHE TECHNIK, vol.60, no.6, pp.603-616, 2015 (SCI-Expanded)
- IX. **Numerical modeling of cold powder compaction using multi particle and continuum media approaches**
Guner F., CORA Ö. N., SOFUOĞLU H.

POWDER TECHNOLOGY, vol.271, pp.238-247, 2015 (SCI-Expanded)

- X. **An investigation of tribological behaviors of dynamically loaded non-grooved and micro-grooved journal bearings**
Adatepe H., Bıyıklioğlu A., SOFUOĞLU H.
TRIBOLOGY INTERNATIONAL, vol.58, pp.12-19, 2013 (SCI-Expanded)
- XI. **Die wear in stamping of advanced high strength steels - Investigations on the effects of substrate material and hard-coatings**
CORA Ö. N., Agcayazi A., Namiki K., SOFUOĞLU H., Koc M.
TRIBOLOGY INTERNATIONAL, vol.52, pp.50-60, 2012 (SCI-Expanded)
- XII. **An experimental investigation on frictional behavior of statically loaded micro-grooved journal bearing**
Adatepe H., Bıyıklioğlu A., SOFUOĞLU H.
TRIBOLOGY INTERNATIONAL, vol.44, no.12, pp.1942-1948, 2011 (SCI-Expanded)
- XIII. **Finite element analysis of magnetic disk with a horizontal subsurface crack**
Ozer A., SOFUOĞLU H.
FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES, vol.34, no.10, pp.816-831, 2011 (SCI-Expanded)
- XIV. **Thermo-mechanical analysis of the magnetic head-disk interface with a fractal surface description**
Ozer A., SOFUOĞLU H.
WEAR, vol.266, pp.1185-1197, 2009 (SCI-Expanded)
- XV. **Thermomechanical analysis of elastoplastic medium in sliding contact with fractal surface**
SOFUOĞLU H., Ozer A.
TRIBOLOGY INTERNATIONAL, vol.41, no.8, pp.783-796, 2008 (SCI-Expanded)
- XVI. **Refined 5-Node Transition Plate Bending Element Based On Kirchhoff Plate Theory**
SOFUOĞLU H., GEDİKLİ H.
Civil-Comp Proceedings, vol.88, pp.1-11, 2008 (AHCI)
- XVII. **A refined 5-node plate bending element based on Reissner-Mindlin theory**
Sofuoglu H., Gedikli H.
COMMUNICATIONS IN NUMERICAL METHODS IN ENGINEERING, vol.23, no.5, pp.385-403, 2007 (SCI-Expanded)
- XVIII. **A technical note on the role of process parameters in predicting flow behavior of plasticine using design of experiment**
Sofuoglu H.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.178, pp.148-153, 2006 (SCI-Expanded)
- XIX. **Physical and numerical analysis of three dimensional extrusion process**
Sofuoglu H., Gedikli H.
COMPUTATIONAL MATERIALS SCIENCE, vol.31, pp.113-124, 2004 (SCI-Expanded)
- XX. **Effect of surface coating and tin plating on friction characteristics of P-110 tubing for different thread compounds**
Cuvalci O., Sofuoglu H., Ertaş A.
TRIBOLOGY INTERNATIONAL, vol.36, no.10, pp.757-764, 2003 (SCI-Expanded)
- XXI. **Comments on the article, A new technique used in obtaining true stress-true strain curves for constant strain-rates - which appeared in the March/April 2003 issue of Experimental Techniques - Author response**
Sofuoglu H.
EXPERIMENTAL TECHNIQUES, vol.27, no.5, pp.12, 2003 (SCI-Expanded)
- XXII. **A new technique used in obtaining true stress - True strain curves for constant strain-rates**
Sofuoglu H.
EXPERIMENTAL TECHNIQUES, vol.27, no.2, pp.35-37, 2003 (SCI-Expanded)
- XXIII. **Determination of friction coefficient encountered in large deformation processes**
Sofuoglu H., Gedikli H.
TRIBOLOGY INTERNATIONAL, vol.35, no.1, pp.27-34, 2002 (SCI-Expanded)

- XXIV. **Determination of friction coefficient by employing the ring compression test**
Sofuoglu H., Gedikli H., Rasty J.
JOURNAL OF ENGINEERING MATERIALS AND TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.123, no.3, pp.338-348, 2001 (SCI-Expanded)
- XXV. **Flow behavior of Plasticine used in physical modeling of metal forming processes**
Sofuoglu H., Rasty J.
TRIBOLOGY INTERNATIONAL, vol.33, no.8, pp.523-529, 2000 (SCI-Expanded)
- XXVI. **On the measurement of friction coefficient utilizing the ring compression test**
Sofuoglu H., Rasty J.
TRIBOLOGY INTERNATIONAL, vol.32, no.6, pp.327-335, 1999 (SCI-Expanded)
- XXVII. **3-DIMENSIONAL ANALYSIS OF EXTRUSION PROCESS UTILIZING THE PHYSICAL MODELING TECHNIQUE**
SOFUOGLU H., RASTY J.
JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.115, no.1, pp.32-40, 1993 (SCI-Expanded)

Articles Published in Other Journals

- I. **Experimental and Numerical Investigation of Thickness Distribution in Forming of Superplastic Zn-22Al Alloy**
ÇETİN M. E., DEMİRTAŞ M., PÜRÇEK G., CORA Ö. N., SOFUOĞLU H.
ACADEMIC PERSPECTIVE PROCEDIA, vol.1, no.1, pp.1034-1040, 2018 (Peer-Reviewed Journal)
- II. **Effects of Process Parameters on Copper Powder Compaction Process Using Multi-Particle Finite Element Method**
GÜNER F., SOFUOĞLU H.
IOP Conference Series: Materials Science and Engineering, vol.295, 2018 (Peer-Reviewed Journal)
- III. **MİKRO İMALAT YÖNTEMİYLE YÜZEY ŞEKİLLENDİRMEİNİN DENTAL İMPLANT UYGULAMALARINDAKİ OSSEOİNTEGRASYONA ETKİSİ**
KÖSE S., CORA Ö. N., SOFUOĞLU H.
Süleyman Demirel Üniversitesi Mühendislik Bilimleri ve Tasarım Dergisi, vol.2, no.3, pp.221-227, 2014 (Peer-Reviewed Journal)
- IV. **Hasarlı Çene Kemiklerinde Abutment Boyunun Dental İmplant Sistemi Üzerindeki Etkileri**
KÖSE S., SOFUOĞLU H.
SÜLEYMAN DEMİREL ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.18, pp.102-110, 2014 (Peer-Reviewed Journal)
- V. **Alt Çene Kemiğindeki Hasarın Abutment Boyu ve Protez Dolgu Malzemesi Kullanılarak Giderilmesinin Mandibula Üzerindeki Etkileri**
KÖSE S., SOFUOĞLU H.
Süleyman Demirel Üniversitesi Mühendislik Bilimleri ve Tasarım Dergisi, vol.2, no.3, pp.211-219, 2014 (Peer-Reviewed Journal)
- VI. **Noktasal Yükleme Etkisindeki Üç Boyutlu İnsan Kalça Eklemine Sonlu Elemanlar Yöntemiyle İncelenmesi**
ÇETİN M. E., SOFUOĞLU H.
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.16, no.3, pp.303-314, 2012 (Peer-Reviewed Journal)
- VII. **Yayıllı Yükleme Etkisindeki Üç Boyutlu İnsan Kalça Eklemine Sonlu Elemanlar Yöntemiyle İncelenmesi**
ÇETİN M. E., SOFUOĞLU H.
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.16, no.3, pp.377-387, 2012 (Peer-Reviewed Journal)
- VIII. **Refined non-conforming five-node thin flat shell element**
SOFUOĞLU H., GEDİKLİ H.
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Metrics

Publication: 90
Citation (WoS): 606
Citation (Scopus): 722
H-Index (WoS): 13
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Congress and Symposium Activities

19. Ulusal Mekanik Kongresi, Attendee, Trabzon, Turkey, 2015
The Seventh International Powder Metallurgy Conference and Exhibiton, Attendee, Ankara, Turkey, 2014
The Seventh International Powder Metallurgy Conference and Exhibiton, Attendee, İzmir, Turkey, 2013

18. Ulusal Mekanik Kongresi, Attendee, Manisa, Turkey, 2013
6. Biyomekanik Kongresi, Attendee, Sakarya, Turkey, 2012
17. Ulusal Mekanik Kongresi, Attendee, Elazığ, Turkey, 2011
V. Makina Tasarım ve İmalat Teknolojileri Kongresi, Attendee, Konya, Turkey, 2009
IV. Biyomekanik Kongresi, Attendee, Erzurum, Turkey, 2008
The Ninth International Conference on Computational Structures Technology, Attendee, Athens, Greece, 2008
4. Otomotiv Teknolojileri Kongresi, Attendee, Bursa, Turkey, 2008
8th International Fracture Conference, Attendee, İstanbul, Turkey, 2007
XV. Ulusal Mekanik Kongresi, Attendee, Isparta, Turkey, 2007
15th UK Conference of Association of the Computational Mechanics in Engineering, Attendee, London, United Kingdom, 2007
16. Ulusal Isı Bilimi ve Tekniği Kongresi, Attendee, Kayseri, Turkey, 2007
III. Makina Tasarım ve İmalat Teknolojileri Kongresi, Attendee, Konya, Turkey, 2005
XV. Ulusal Isı Bilimi ve Tekniği Kongresi, Attendee, Trabzon, Turkey, 2005
XIII. Ulusal Mekanik Kongresi, Attendee, Gaziantep, Turkey, 2003
4th International Conference on Tribology, Attendee, Kayseri, Turkey, 2002
XII. Ulusal Mekanik Kongresi, Attendee, Konya, Turkey, 2001
Engineering Systems Design and Analysis Conference, Attendee, Montpellier, France, 1996
Birinci Ulusal Deneysel Mekanik Sempozyumu, Attendee, İstanbul, Turkey, 1994
Engineering Systems Design and Analysis Conference, Attendee, London, United Kingdom, 1994
Altıncı Ulusal Makina Teorisi Sempozyumu, Attendee, Trabzon, Turkey, 1993
Engineering Systems Design and Analysis Conference, Attendee, İstanbul, Turkey, 1992
Society for Experimental Mechanics Spring Conference on Experimental Mechanics, Attendee, Albuquerque/New Mexico, United States Of America, 1990