

Asst. Prof. HASAN EMRE OKTAY

Personal Information

Email: heoktay@gelisim.edu.tr

Web: <https://avesis.gelisim.edu.tr/heoktay>

International Researcher IDs

ScholarID: b_nDnYIAAAAJ

ORCID: 0000-0001-8406-8747

Yoksis Researcher ID: 337810

Education Information

Doctorate, Middle East Technical University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (Dr), Turkey 2013 - 2020

Postgraduate, Middle East Technical University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (YI) (Tezli), Turkey 2007 - 2012

Undergraduate, Middle East Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 2002 - 2007

Dissertations

Doctorate, Micromechanical modeling of semicrystalline polymers with spherulite morphology, Middle East Technical University, Graduate School Of Natural And Applied Sciences, 2020

Postgraduate, Finite element analysis of laboratory model experiments on behavior of shallow foundations under general loading, Middle East Technical University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (YI) (Tezli), 2012

Courses

Temel İnşaatı, Undergraduate, 2022 - 2023, 2021 - 2022

Statik ve Mukavemet, Undergraduate, 2022 - 2023, 2021 - 2022

İNŞAAT MÜHENDİSLİĞİNDE SAYISAL UYGULAMALAR, Postgraduate, 2022 - 2023

Computer Aided Technical Drawing, Undergraduate, 2022 - 2023, 2021 - 2022

Statics, Undergraduate, 2021 - 2022

Yapı Malzemeleri, Undergraduate, 2021 - 2022

Betonarme ve Çelik Yapılar, Undergraduate, 2021 - 2022

Reinforced Concrete I, Undergraduate, 2021 - 2022

Zemin Mekaniği, Undergraduate, 2021 - 2022

Reinforced Concrete and Steel Frame Structures, Undergraduate, 2021 - 2022

Yapı Malzemeleri, Undergraduate, 2020 - 2021

Zemin Mekaniği, Undergraduate, 2020 - 2021

Graduation Design Project, Undergraduate, 2020 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

1. Modeling of spherulite microstructures in semicrystalline polymers

Oktay H. E., Gürses E.

Mechanics of Materials, vol.90, pp.83-101, 2015 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **A Micromechanically based Multi-Scale Constitutive Model for Semi-Crystalline Polymers**
OKTAY H. E., GÜRSES E., GÖKTEPE S.
BEYOND 2019: Computational Science and Engineering Conference, Ankara, Turkey, 9 - 11 September 2019, pp.51
- II. **ÇOK FAZLI MALZEMELERİN DÜZLEMSEL ARAYÜZLERLE HOMOJENLEŞTİRİLMESİ: KİNEMATİK UYUMLU YAKLAŞIM**
OKTAY H. E., GÜRSES E., GÖKTEPE S.
21. Ulusal Mekanik Kongresi, Niğde, Turkey, 2 - 06 September 2019, pp.571-577
- III. **Micromechanically Motivated Modeling of Semicrystalline Polymers**
OKTAY H. E., GÜRSES E., GÖKTEPE S.
XIV International Conference on Computational Plasticity COMPLAS, Barcelona, Spain, 5 - 07 September 2017
- IV. **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 September 2015
- V. **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 July 2015
- VI. **MODELING OF SPHERULITE MICROSTRUCTURE IN SEMICRYSTALLINE POLYMERS**
GÜRSES E., OKTAY H. E.
IUTAM Symposium on Innovative Numerical Approaches for Materials and Structures in Multi-Field and Multi-Scale Problems, Siegen, Germany, 1 - 04 September 2014, pp.35
- VII. **Microstructural Modeling of Semicrystalline Polymers**
OKTAY H. E., GÜRSES E.
IUTAM Symposium on Micromechanics of Defects in Solids, Sevilla, Spain, 9 - 13 June 2014
- VIII. **Yarı Kristal Polimer Malzemelerin Çok Ölçekli Modellenmesi**
OKTAY H. E., GÜRSES E.
XVIII. Ulusal Mekanik Kongresi, Manisa, Turkey, 26 - 30 August 2013, pp.473-482

Supported Projects

Ultra Yüksek Moleküler Ağırlıklı Polietilenin Çok Ölçekli Modellenmesi, 2012 - 2014