Journal of Structural Engineering & Applied Mechanics

Volume 3 • Issue 2 • June 2020

ISSN: 2630-5763

Editor-in-Chief

Volkan Kahya

Karadeniz Technical University

Managing Editor

Ahmet Can Altunışık

Karadeniz Technical University

www.dynaaca.com www.goldenlightpublish.com





Journal of Structural Engineering & Applied Mechanics

Editor-in-Chief

Volkan Kahya

Department of Civil Engineering Karadeniz Technical University 61080 Trabzon, Turkey E-mail: volkan@ktu.edu.tr

Managing Editor

Ahmet Can Altunışık

Department of Civil Engineering Karadeniz Technical University 61080 Trabzon, Turkey E-mail: ahmetcan@ktu.edu.tr

Editorial Board

Abdullah Avev

Süleyman Demirel University, Turkey

Adem Doğangün

Uludağ University, Turkey

Ahmet Birinci

Karadeniz Technical University,

Turkey

Alp Caner

Middle East Technical University,

Turkey

Barış Sevim

Yıldız Technical University, Turkey

Dimitri Georgievskii

Moscow State University, Russia

Eckart Schnack

Karlsruhe Institute of Technology,

Germany

Ehsan Noroozinejad

Graduate University of Advanced

Technology, Iran

Erol Tutumluer

University of Illinois, Urbana-Champaign, USA

Halil Karadeniz

Esenyurt University, Turkey

Halil Sezen

Ohio State University, USA

Hui-Shen Shen

Shanghai Jiao Tong University, China

Kurtuluş Soyluk

Gazi University, Turkey

Mehmet Hakkı Omurtag

İstanbul Technical University,

Turkev

Mehmet Ülker

Fırat University, Turkey

Metin Hüsem

Karadeniz Technical University,

Turkey

Mohammad Reza Eslami

Amirkabir University of Technology, Iran

Mohammad Shariyat

K.N. Toosi University of Technology, Iran

Murat Emre Kartal

İzmir Democracy University, Turkey

Roland Duduchava

A. Raznmadze Mathematical Institute, Georgia

Sez Atamturktur

Pennsylvania State University, USA

Vagif Hacivev

Azerbaijan National Academy of Sciences, Azerbaijan

Thuc P. Vo

La Trobe University, Australia

Journal of Structural Engineering & Applied Mechanics is an international journal quarterly published by the Golden Light Publishing®. Each paper submitted is subject to peer-review, and only papers of highest quality that contain original ideas will be published.

Copyright © Golden Light Publishing®

ISSN: 2630-5763 (online)

Address for correspondence:

Golden Light Publishing® Trabzon Teknoloji Geliştirme Bölgesi, Yönetici A.Ş. Üniversite Mahallesi, Hastane Caddesi, No: 33 61081 Trabzon, Turkey

Journal of Structural Engineering & Applied Mechanics

Volume 3, Issue 2, June 30, 2020

CONTENTS

Barbaros Atmaca, Serhat Demir, Murat Günaydın, Ahmet Can Altunışık, Metin Hüsem,
Şevket Ateş, Süleyman Adanur, Zekai Angın
Lessons learned from the past earthquakes on building performance in Turkey
Research Article
Olgun Köksal, Zeki Karaca
Influence of blast-induced ground motion on dynamic response of reinforcement
retaining walls85
Research Article
İlker Bekir Topçu, Arda Uzunömeroğlu
Properties of corrosion inhibitors on reinforced concrete
Review Article
Peter Kirruti, Ayse Pekrioglu Balkis
Seismic performance assessment of steel bracing systems in high-rise reinforced
concrete structures
Research Article
Sevgi Lökce, Erşan Göksu
Preliminary design criteria of prestressed concrete structures
Research Article