

Journal of Structural Engineering & Applied Mechanics

Volume 2 • Issue 4 • December 2019
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 Avey

Süleyman Demirel University,
Turkey

Adem Doğançün

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,
Turkey

Mehmet Ülker

Firat 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. Razmadze Mathematical
Institute, Georgia

Sez Atamturktur

Clemson University, USA

Vagif Hacıyev

Azerbaijan National Academy of
Sciences, Azerbaijan

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 2, Issue 4, December 31, 2019

CONTENTS

U.N. Aribas, M.H. Omurtag

The static response of sandwich exact conical helices via MFEM..... 153

A. Mortazavi

Effect of fuzzy-membership function types on the search capability of interactive search algorithm 164

M.A. Kömür, İ.Ö. Deneme, R. Oruç

Seismic response of fixed-base and LRB base-isolated RC frame systems under NF and FF excitations 174

A.I. Karakas, A. Daloglu

A parametric frequency analysis for functionally graded cylinders using graded harmonic FEM..... 190

Ö.H. Bettemir, K. Türk

Development of preliminary structural analysis software 207