

## Prof. TURGUT TOKDEMİR

### Personal Information

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### Advising Theses

- TOKDEMİR T., Radar cross section analysis by shooting and Bouncing Rays Method, Doctorate, M.KAĞAN(Student), 2015
- TOKDEMİR T., Optimum design of low-rise steel frames made of cold-formed thin-walled steel sections, Doctorate, S.ÇARBAŞ(Student), 2013
- TOKDEMİR T., Generalized finite difference method in elastodynamics using perfectly matched layer, Doctorate, F.KORKUT(Student), 2012
- TOKDEMİR T., Ultimate load capacity of optimally designed cellular beams, Doctorate, F.ERDAL(Student), 2011
- TOKDEMİR T., Optimum design of rigid and semi-rigid steel sway frames including soil-structure interaction, Doctorate, E.DOĞAN(Student), 2010
- TOKDEMİR T., Optimum design of irregular 3-D steel frames using ant colony optimization and harmony search algorithms, Doctorate, İ.AYDOĞDU(Student), 2010
- TOKDEMİR T., Optimum design of reinforced concrete plane frames using harmony search algorithm, Doctorate, A.AKIN(Student), 2010
- GÜRSES S., TOKDEMİR T., Linear and nonlinear analysis of human postural sway, Postgraduate, H.ÇELİK(Student), 2008
- ERASLAN A. N., TOKDEMİR T., Generalized finite differences for the solution of one dimensional elastic plastic problems of nonhomogeneous materials, Postgraduate, P.UYGUR(Student), 2007
- TOKDEMİR T., Investigation of Turkey's carbon dioxide problem by numerical modeling, Doctorate, A.CAN(Student), 2006
- TOKDEMİR T., Lateral load analysis of shear wall-frame structures, Doctorate, T.AKIŞ(Student), 2004
- TOKDEMİR T., Numerical simulation of grouting, Doctorate, S.BOZKURT(Student), 2003
- TOKDEMİR T., Element free galerkin method based on moving least square approximants., Postgraduate, E.Güray(Student), 2002
- TOKDEMİR T., Biomechanics of porous ceramic implants used in long-bones segmental defect healing, Doctorate, C.BALÇIK(Student), 2002
- TOKDEMİR T., Element free galerkin method based on moving least square approximants, Postgraduate, E.GÜRAYS(Student), 2002
- TOKDEMİR T., Spiralling flow through an eccentric annulus, Postgraduate, T.KUTAY(Student), 2002
- TOKDEMİR T., Hydraulic transients in closed pipi circuits, Postgraduate, F.İLKEY(Student), 2000
- TOKDEMİR T., Effect of imperfections on axisymmetric snap-through buckling of shallow spherical shells, Postgraduate, C.Karaman(Student), 1998
- TOKDEMİR T., A Three dimensional computer graphics approach in engineering problems, Postgraduate, U.GELER(Student), 1997
- TOKDEMİR T., Effect of dietary selenium and vitamin E on the biomechanical properties of bones and skeletal muscles, Postgraduate, B.BALÇIK(Student), 1996
- TOKDEMİR T., Effect of dietary selenium and vitamine E on the biomechanical properties of bones and skeletal muscles, Postgraduate, C.Balçık(Student), 1996
- TOKDEMİR T., Three dimensional finite element modelling of the Erzincan Basin, Postgraduate, A.Hossein(Student), 1994
- TOKDEMİR T., Three dimensional finite element modelling of Erzincan basin, Postgraduate, A.HOSSEİN(Student), 1994

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **On the use of complex stretching coordinates in generalized finite difference method with applications in inhomogeneous visco-elasto dynamics**  
Korkut F., Mengi Y., TOKDEMİR T.  
ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, vol.134, pp.466-490, 2022 (SCI-Expanded)
- II. **The use of generalized finite difference method in perfectly matched layer analysis**  
Korkut F., TOKDEMİR T., Mengi Y.  
APPLIED MATHEMATICAL MODELLING, vol.60, pp.127-144, 2018 (SCI-Expanded)
- III. **Modeling of Asymmetric Shear Wall-Frame Building Structures**  
AKIŞ T., TOKDEMİR T., YILMAZ Ç.  
JOURNAL OF ASIAN ARCHITECTURE AND BUILDING ENGINEERING, vol.8, no.2, pp.531-538, 2009 (SCI-Expanded)
- IV. **Thermoelastic response of a fin exhibiting elliptic thickness profile: An analytical solution**  
ERASLAN A. N., TOKDEMİR T.  
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.47, no.3, pp.274-281, 2008 (SCI-Expanded)
- V. **Early weight bearing of porous HA/TCP (60/40) ceramics in vivo: A longitudinal study in a segmental bone defect model of rabbit**  
Balcık C., Tokdemir T., Senkoğlu A., Koc N., Timucin M., Akin S., Korkusuz P., Korkusuz F.  
ACTA BIOMATERIALIA, vol.3, no.6, pp.985-996, 2007 (SCI-Expanded)
- VI. **Unstructured grid generation and a simple triangulation algorithm for arbitrary 2-D geometries using object oriented programming**  
Karamete B., Tokdemir T., Ger M.  
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING, vol.40, no.2, pp.251-268, 1997 (SCI-Expanded)
- VII. **EXTENSION OF THE RESIDUAL VARIABLE METHOD TO PROPAGATION PROBLEMS AND ITS APPLICATION TO THE DIFFUSION EQUATION IN SPHERICAL COORDINATES**  
AKKAS N., TOKDEMİR T.  
ACTA MECHANICA, vol.96, pp.109-118, 1993 (SCI-Expanded)
- VIII. **EXTENSION OF THE RESIDUAL VARIABLE METHOD TO PROPAGATION PROBLEMS AND ITS APPLICATION TO THE WAVE-EQUATION IN CYLINDRICAL COORDINATES**  
AKKAS N., TOKDEMİR T.  
COMPUTERS & STRUCTURES, vol.44, no.4, pp.729-734, 1992 (SCI-Expanded)

## Metrics

Publication: 8

Citation (WoS): 80

Citation (Scopus): 68

H-Index (WoS): 3

H-Index (Scopus): 2

## Non Academic Experience

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