## SUTIC RESEARCH BULLETIN

## **Civil Engineering**

## Table of Content

2007	-2017	Volume 1
1	A transversely isotropic medium containing a penny-shaped crack subjected to a non-uniform axisymmetric loading via an anchored smooth rigid disk	

A. Ordookhani, M.T. Kamali, H.M. Shodja, Applied Mathematical Modelling 45 (2017) 491–504.

- Axisymmetric circular indentation of a half-space reinforced by a buried elastic thin film
  S.F. Ahmadi and M. Eskandari
  Mathematics and Mechanics of Solids 19 (2014) 1–10.
- Axisymmetric time-harmonic response of a surface-stiffened transversely isotropic half-space
  M. Eskandari, P. Samea, S.F. Ahmadi
  Meccanica 52 (2017) 183–196.
- A new integration algorithm for finite strain J<sub>2</sub> plasticity based on midpoint rule
  M. Jahanshahi
  Scientia Iranica A 22 (2015) 1373–1389.
- A transversely isotropic medium containing a penny-shaped crack subjected to a non-uniform axisymmetric loading via an anchored smooth rigid disk
  A. Ordookhani, M.T. Kamali, H.M. Shodja
  Applied Mathematical Modelling 45 (2017) 491–504.
- Boussinesq indentation of a transversely isotropic half-space reinforced by a buried inextensible membrane
  H.M. Shodja, S.F. Ahmadi, M. Eskandari
  Applied Mathematical Modelling 38 (2014) 2163–2172.
- Bynamic analysis of a rigid circular foundation on a transversely isotropic half-space under a buried inclined time-harmonic load
  M. Eskandari, S.F.Ahmadi, S.Khazaeli
  Soil Dynamics and Earthquake Engineering 63 (2014) 184–192.
- 89 Enhanced ACS algorithms for plastic analysis of planar frames M. Jahanshahi, M. Pouraghajan, M. Pouraghajan Computational Methods in Civil Engineering 4 (2013) 65–82.
- **107** Effective shear modulus of solids reinforced by randomly oriented-/aligned-elliptic nanofibers in couple stress elasticity H.M. Shodja, B. Alemi

Composites Part B 117 (2017) 150-164.

- Evaluation of seismic parameters and response modification factor of connections in reduced beam section
  E. Tavasoli, Y. Abadi
  International Journal of Civil and Environmental Engineering 10 (2016) 1–8.
- **130** Green's functions of a surface-stiffened transversely isotropic half-space M. Eskandari, S.F. Ahmadi International Journal of Solids and Structures 49 (2012) 3282–3290.
- Multi-scale modeling of plastic deformations in nano-scale materials; Transition to plastic limit
  A.R. Khoei and M. Jahanshahi
  International Journal for Numerical Methods in Engineering 109 (2017) 1180–1216.
- 176 Numerical assessment of a double step integration algorithm for J<sub>2</sub> plasticity with Armstrong–Frederick evolution of back stress
  M. Jahanshahi
  Scientia Iranica A 19 (2012) 1168–1179.
- 188 On the efficiency of artificial neural networks for plastic analysis of planar frames in comparison with genetic algorithms and ant colony systems
  M. Jahanshahi, E. Maleki, A. Ghiami
  Neural Computing and Applications 28 (2017) 3209–3227.
- 207 Second order integration algorithms for J2 plasticity with generalized isotropickinematic hardening
   M. Jahanshahi
   Asian Journal of Civil Engineering 13 (2012) 203–232.
- 237 The seismic performance of K-braced cold-formed steel shear panels with improved connections
  O. Pourabdollah, F. Farahbod, F.R. Rofooei
  Journal of Constructional Steel Research 135 (2017) 56–68.
- 250 Three-dimensional free vibration of arbitrarily shaped laminated micro-plates with sliding interfaces within couple stress theory M.T. Kamali, .H.M. Shodja, B. Forouzan Journal of Sound and Vibration 339 (2015) 176–195.
- Validity of Cauchy–Born hypothesis in multi-scale modeling of plastic deformations
  A.R. Khoei, M. Jahanshahi, G. Toloui
  International Journal of Solids and Structures 115-116 (2017) 224–247.