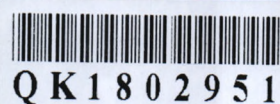




Vol.30 No.5 2017



ACTA MECHANICA SOLIDA SINICA

固体力学学报(英文版)

An International Journal

ISSN 0894-9166



Published by
Acta Mechanica Solida Sinica Press
Wuhan, China
<http://amss.hust.edu.cn>



万方数据

ACTA MECHANICA SOLIDA SINICA

Volume 30 No. 5

October 2017

CONTENTS

Transient heat conduction analysis using the NURBS-enhanced scaled boundary finite element method and modified precise integration method.....	445
G. Lin, P. Li, J. Liu and P. Zhang	
Nonlinear frequency analysis of buckled nanobeams in the presence of longitudinal magnetic field	465
X.-P. Sun, Y.-Z. Hong, H.-L. Dai and L. Wang	
Analytical solutions for thermal vibration of nanobeams with elastic boundary conditions	474
J. Jiang and L. Wang	
Dynamic response of a Q&P steel to high-strain-rate tension	484
H. Wang, W. Zhang, D. Ma, B. Ma, D. Chen, X. Yang and C. Fan	
Influences of initial porosity, stress triaxiality and Lode parameter on plastic deformation and ductile fracture	493
Y.-S. Ma, D.-Z. Sun, F. Andrieux and K.-S. Zhang	
Development and application of state-dependent fractional plasticity in modeling the non-associated behavior of granular aggregates.....	507
Y. Sun, S. Song, Y. Xiao and J. Zhang	
Vibration analysis of atomic force microscope cantilevers in contact resonance force microscopy using Timoshenko beam model	520
X. Zhou, P. Wen and F. Li	
Topology optimization of piezocomposite resonator for maximizing excitation strength and synthesizing desired eigenmodes.....	531
X. Wang, Z. Lin and Y. Ren	
Experimental and numerical studies of impact on filament-wound composite cylinder	540
Q. Wu, X. Chen, Z. Fan, Y. Jiang and D. Nie	
Quantum effects on thermal vibration of single-walled carbon nanotubes conveying fluid	550
Y.-W. Zhang, L. Zhou, B. Fang and T.-Z. Yang	



Available online at www.sciencedirect.com

ScienceDirect

Vol. 30 No. 5 October 2017

ACTA MECHANICA SOLIDA SINICA (Bimonthly)
Vol.30 No.5 2017

Sponsored by
The Chinese Society of Theoretical and Applied Mechanics
Edited by
Editorial Board of ACTA MECHANICA SOLIDA SINICA
Wuhan, China

Copyright 2017 by Acta Mechanica Solida Sinica Press, Wuhan, China

Distributed by
Editorial Department
ACTA MECHANICA SOLIDA SINICA
Huazhong University of Science and Technology
Wuhan 430074, Hubei, China

ISSN 0894-9166
CN42-1121/O3