



Q K 1 8 0 9 9 2 5

ISSN 0253-4827

CN 31-1650/O1

CODEN AMMEEQ

AMM

APPLIED MATHEMATICS AND MECHANICS

(English Edition)



应用数学和力学(英文版)

Vol. 39 No. 3 Mar. 2018



Editorial Office of AMM



Springer

CONTENTS

Commenced in May 1980

Vol. 39 No. 3 Mar. 2018 (Monthly)

A simple criterion for finite time stability with application to impacted buckling of elastic columns.....	(305)
C. Q. RU	
Rayleigh-type wave propagation in incompressible visco-elastic media under initial stress	(317)
P. SINGH, A. CHATTOPADHYAY, A. K. SINGH	
Static deformation of a multilayered one-dimensional hexagonal quasicrystal plate with piezoelectric effect	(335)
Tuoya SUN, Junhong GUO, Xiaoyan ZHANG	
Synchronization in a fractional-order dynamic network with uncertain parameters using an adaptive control strategy	(353)
Lin DU, Yong YANG, Youming LEI	
A new nonlinear force model to replace the Hertzian contact model in a rigid-rotor ball bearing system.....	(365)
Yulin JIN, Zhenyong LU, Rui YANG, Lei HOU, Yushu CHEN	
Revisit of dilation-based shock capturing for discontinuous Galerkin methods	(379)
Jian YU, Chao YAN, Zhenhua JIANG	
Fluid flow driven along microchannel by its upper stretching wall with electrokinetic effects	(395)
Hang XU, I. POP, Q. SUN	
A new method for particle manipulation by combination of dielectrophoresis and field-modulated electroosmotic vortex.....	(409)
Chuanchuan XIE, Bo CHEN, Bing YAN, Jiankang WU	
Performance investigation of plasma magnetohydrodynamic power generator.....	(423)
Hulin HUANG, Linyong LI, Guiping ZHU, Lai LI	
Fallopian tube assessment of the peristaltic-ciliary flow of a linearly viscous fluid in a finite narrow tube.....	(437)
H. ASHRAF, A. M. SIDDIQUI, M. A. RANA	

ISSN 0253-4827

ISSN 0253-4827
CN 31-1650/O1



CONTENTS

Commenced in May 1980

Vol. 39 No. 3 Mar. 2018 (Monthly)

A simple criterion for finite time stability with application to impacted buckling of elastic columns.....	(305)
C. Q. RU	
Rayleigh-type wave propagation in incompressible visco-elastic media under initial stress	(317)
P. SINGH, A. CHATTOPADHYAY, A. K. SINGH	
Static deformation of a multilayered one-dimensional hexagonal quasicrystal plate with piezoelectric effect	(335)
Tuoya SUN, Junhong GUO, Xiaoyan ZHANG	
Synchronization in a fractional-order dynamic network with uncertain parameters using an adaptive control strategy	(353)
Lin DU, Yong YANG, Youming LEI	
A new nonlinear force model to replace the Hertzian contact model in a rigid-rotor ball bearing system.....	(365)
Yulin JIN, Zhenyong LU, Rui YANG, Lei HOU, Yushu CHEN	
Revisit of dilation-based shock capturing for discontinuous Galerkin methods	(379)
Jian YU, Chao YAN, Zhenhua JIANG	
Fluid flow driven along microchannel by its upper stretching wall with electrokinetic effects	(395)
Hang XU, I. POP, Q. SUN	
A new method for particle manipulation by combination of dielectrophoresis and field-modulated electroosmotic vortex.....	(409)
Chuanchuan XIE, Bo CHEN, Bing YAN, Jiankang WU	
Performance investigation of plasma magnetohydrodynamic power generator.....	(423)
Hulin HUANG, Linyong LI, Guiping ZHU, Lai LI	
Fallopian tube assessment of the peristaltic-ciliary flow of a linearly viscous fluid in a finite narrow tube.....	(437)
H. ASHRAF, A. M. SIDDIQUI, M. A. RANA	

ISSN 0253-4827

ISSN 0253-4827
CN 31-1650/O1

