



Q K 1 9 2 3 5 4 4

ISSN 0253-4827

CN 31-1650/O1

CODEN AMMEEQ

AMM

APPLIED MATHEMATICS AND MECHANICS

(English Edition)



Vol. 40 No. 6 Jun. 2019

应用数学和力学(英文版)

AMM Editorial Office of AMM

 Springer

CONTENTS

Commenced in May 1980

Vol. 40 No. 6 Jun. 2019 (Monthly)

- Thermo-magnetic analysis of thick-walled spherical pressure vessels made of functionally graded materials.....(751)
M. A. NEMATOLLAHI, A. DINI, M. HOSSEINI
- Bending of small-scale Timoshenko beams based on the integral/differential nonlocal-micropolar elasticity theory: a finite element approach(767)
M. FARAJI-OSKOUIE, A. NOROUZZADEH, R. ANSARI, H. ROUHI
- Vibration analysis of FG annular sector in moderately thick plates with two piezoelectric layers(783)
S. AZARIPOUR, M. BAGHANI
- Mixture flow of particles and power-law fluid in round peristaltic tube.....(805)
Hailin YANG, Jianzhong LIN, Xiaoke KU
- Stabilized seventh-order dissipative compact scheme using simultaneous approximation terms(823)
Jiaxian QIN, Yaming CHEN, Xiaogang DENG
- Utilization of Maxwell-Cattaneo law for MHD swirling flow through oscillatory disk subject to porous medium(837)
A. RAUF, Z. ABBAS, S. A. SHEHZAD
- Leading-edge receptivity of boundary layer to three-dimensional free-stream turbulence(851)
Luyu SHEN, Changgen LU, Xiaoqing ZHU
- Upshot of ohmically dissipated Darcy-Forchheimer slip flow of magnetohydrodynamic Sutterby fluid over radiating linearly stretched surface in view of Cash and Carp method(861)
S. BILAL, M. SOHAIL, R. NAZ, M. Y. MALIK, M. ALGHAMDI
- A trigonometric series expansion method for the Orr-Sommerfeld equation(877)
Ying TAN, Weidong SU
- Mixed finite element for two-dimensional incompressible convective Brinkman-Forchheimer equations(889)
Demin LIU, Kaitai LI

ISSN 0253-4827

ISSN 0253-4827
CN 31-1650/O1



CONTENTS

Commenced in May 1980

Vol. 40 No. 6 Jun. 2019 (Monthly)

- Thermo-magnetic analysis of thick-walled spherical pressure vessels made of functionally graded materials.....(751)
M. A. NEMATOLLAHI, A. DINI, M. HOSSEINI
- Bending of small-scale Timoshenko beams based on the integral/differential nonlocal-micropolar elasticity theory: a finite element approach(767)
M. FARAJI-OSKOUIE, A. NOROUZZADEH, R. ANSARI, H. ROUHI
- Vibration analysis of FG annular sector in moderately thick plates with two piezoelectric layers(783)
S. AZARIPOUR, M. BAGHANI
- Mixture flow of particles and power-law fluid in round peristaltic tube.....(805)
Hailin YANG, Jianzhong LIN, Xiaoke KU
- Stabilized seventh-order dissipative compact scheme using simultaneous approximation terms(823)
Jiaxian QIN, Yaming CHEN, Xiaogang DENG
- Utilization of Maxwell-Cattaneo law for MHD swirling flow through oscillatory disk subject to porous medium(837)
A. RAUF, Z. ABBAS, S. A. SHEHZAD
- Leading-edge receptivity of boundary layer to three-dimensional free-stream turbulence(851)
Luyu SHEN, Changgen LU, Xiaoqing ZHU
- Upshot of ohmically dissipated Darcy-Forchheimer slip flow of magnetohydrodynamic Sutterby fluid over radiating linearly stretched surface in view of Cash and Carp method(861)
S. BILAL, M. SOHAIL, R. NAZ, M. Y. MALIK, M. ALGHAMDI
- A trigonometric series expansion method for the Orr-Sommerfeld equation(877)
Ying TAN, Weidong SU
- Mixed finite element for two-dimensional incompressible convective Brinkman-Forchheimer equations(889)
Demin LIU, Kaitai LI

ISSN 0253-4827

ISSN 0253-4827
CN 31-1650/O1

