

AMM

ISSN 0253-4827

CN 31-1650/O1

CODEN AMMEEQ



QK2149979

APPLIED MATHEMATICS AND MECHANICS

(ENGLISH EDITION)



Vol. 42 No. 10 Oct. 2021

应用数学和力学 (英文版)

万方数据

AMM Editorial Office of AMM



Springer



APPLIED MATHEMATICS AND MECHANICS (ENGLISH EDITION)

应用数学和力学(英文版)

CONTENTS

Commenced in May 1980

Vol. 42 No. 10 Oct. 2021 (Monthly)

- Two-phase nonlocal integral models with a bi-Helmholtz averaging
kernel for nanorods (1379)
Pei ZHANG, Hai QING
Effect of inertial acoustic cavitation on antibiotic efficacy in biofilms.....(1397)
M. GHASEMI, S. SIVALOGANATHAN
Clamped-end effect on static detection signals of DNA-microcantilever (1423)
Junzheng WU, Nenghui ZHANG
Effective elastic properties of one-dimensional hexagonal quasicrystal composites (1439)
Shuang LI, Lianhe LI
Numerical solution to the Falkner-Skan equation: a novel numerical approach
through the new rational α -polynomials (1449)
S. ABBASBANDY, J. HAJISHAFIEIHA
Flow of Eyring-Powell liquid due to oscillatory stretchable curved sheet with
modified Fourier and Fick's model (1461)
M. IMRAN, Z. ABBAS, M. NAVEED
Amplification mechanism of perturbation energy in controlled backward-facing
step flow.....(1479)
Yadong HUANG, Desheng ZHANG, Fadong GU
Reiner-Rivlin nanomaterial heat transfer over a rotating disk with distinct heat source
and multiple slip effects.....(1495)
A. S. SABU, J. MACKOLIL, B. MAHANTHESH, A. MATHEW
Unsteady flow of a Maxwell hybrid nanofluid past a stretching/shrinking surface with
thermal radiation effect (1511)
N. A. ZAINAL, R. NAZAR, K. NAGANTHRAN, I. POP
Entropy generation analysis of tangent hyperbolic fluid in quadratic Boussinesq
approximation using spectral quasi-linearization method (1525)
C. SRINIVAS REDDY, B. MAHANTHESH, P. RANA, K. S. NISAR

ISSN 0253-4827

CN 31-1650/O1

Domestic: ¥ 40
Overseas: \$ 178

万方数据



ISSN 0253-4827



9 770253 482212

APPLIED MATHEMATICS AND MECHANICS (ENGLISH EDITION)

应用数学和力学(英文版)

CONTENTS

Commenced in May 1980

Vol. 42 No. 10 Oct. 2021 (Monthly)

Two-phase nonlocal integral models with a bi-Helmholtz averaging kernel for nanorods	(1379)
Pei ZHANG, Hai QING	
Effect of inertial acoustic cavitation on antibiotic efficacy in biofilms.....	(1397)
M. GHASEMI, S. SIVALOGANATHAN	
Clamped-end effect on static detection signals of DNA-microcantilever	(1423)
Junzheng WU, Nenghui ZHANG	
Effective elastic properties of one-dimensional hexagonal quasicrystal composites	(1439)
Shuang LI, Lianhe LI	
Numerical solution to the Falkner-Skan equation: a novel numerical approach through the new rational α -polynomials	(1449)
S. ABBASBANDY, J. HAJISHAFIEIHA	
Flow of Eyring-Powell liquid due to oscillatory stretchable curved sheet with modified Fourier and Fick's model	(1461)
M. IMRAN, Z. ABBAS, M. NAVEED	
Amplification mechanism of perturbation energy in controlled backward-facing step flow.....	(1479)
Yadong HUANG, Desheng ZHANG, Fadong GU	
Reiner-Rivlin nanomaterial heat transfer over a rotating disk with distinct heat source and multiple slip effects.....	(1495)
A. S. SABU, J. MACKOLIL, B. MAHANTHESH, A. MATHEW	
Unsteady flow of a Maxwell hybrid nanofluid past a stretching/shrinking surface with thermal radiation effect	(1511)
N. A. ZAINAL, R. NAZAR, K. NAGANTHRAN, I. POP	
Entropy generation analysis of tangent hyperbolic fluid in quadratic Boussinesq approximation using spectral quasi-linearization method	(1525)
C. SRINIVAS REDDY, B. MAHANTHESH, P. RANA, K. S. NISAR	

ISSN 0253-4827

CN 31-1650/O1

Domestic: ¥ 40
Overseas: \$ 178

万方数据



ISSN 0253-4827



9 770253 482212

