



0253-4827
1-1650/O1
CODEN AMMEEQ

AMM

APPLIED MATHEMATICS AND MECHANICS

(ENGLISH EDITION)



Vol. 44 No. 4 Apr. 2023

应用数学和力学 (英文版)

AMM Editorial Office of AMM



万方数据

APPLIED MATHEMATICS AND MECHANICS (ENGLISH EDITION)

应用数学和力学(英文版)

CONTENTS

Commenced in May 1980

Vol. 44 No. 4 Apr. 2023 (Monthly)

- Elastic twisting metamaterial for perfect longitudinal-torsional wave
mode conversion (515)
Shengjie YAO, Yijun CHAI, Xiongwei YANG, Yueming LI
- Theoretical study on dynamic effective electroelastic properties of random
piezoelectric composites with aligned inhomogeneities (525)
Yanpeng YUE, Yongping WAN
- A pre-strain strategy of current collectors for suppressing electrode debonding in
lithium-ion batteries (547)
Bo RUI, Bo LU, Yicheng SONG, Junqian ZHANG
- Multiresolution method for bending of plates with complex shapes (561)
Jizeng WANG, Yonggu FENG, Cong XU, Xiaojing LIU, Youhe ZHOU
- Antiplane shear crack in a prestressed elastic medium based on the couple
stress theory (583)
Jian CHEN, Yawei WANG, Xianfang LI
- Dynamic coupled thermo-hydro-mechanical problem for heterogeneous deep-sea
sediments under vibration of mining vehicle (603)
Wei ZHU, Xingkai MA, Xinyu SHI, Wenbo MA
- Model-based adaptive locomotion and clustering control of microparticles through
ultrasonic topological charge modulation (623)
H. S. LEE, H. X. CAO, D. JUNG, C. S. KIM
- Three-dimensional mixed convection stagnation-point flow past a vertical
surface with second-order slip velocity (641)
A. V. ROŞCA, N. C. ROŞCA, I. POP
- Effect of periodic heat transfer on the transient thermal behavior of a
convective-radiative fully wet porous moving trapezoidal fin (653)
B. J. GIREESHA, M. L. KEERTHI
- Computational analysis for fractional characterization of coupled
convection-diffusion equations arising in MHD flows (669)
M. HAMID, M. USMAN, Zhenfu TIAN

ISSN 0253-4827

CN 31-1650/O1

Domestic: ¥ 40
Overseas: \$ 178



APPLIED MATHEMATICS AND MECHANICS (ENGLISH EDITION)

应用数学和力学(英文版)

CONTENTS

Commenced in May 1980

Vol. 44 No. 4 Apr. 2023 (Monthly)

- Elastic twisting metamaterial for perfect longitudinal-torsional wave
mode conversion (515)
Shengjie YAO, Yijun CHAI, Xiongwei YANG, Yueming LI
- Theoretical study on dynamic effective electroelastic properties of random
piezoelectric composites with aligned inhomogeneities (525)
Yanpeng YUE, Yongping WAN
- A pre-strain strategy of current collectors for suppressing electrode debonding in
lithium-ion batteries (547)
Bo RUI, Bo LU, Yicheng SONG, Junqian ZHANG
- Multiresolution method for bending of plates with complex shapes (561)
Jizeng WANG, Yonggu FENG, Cong XU, Xiaojing LIU, Youhe ZHOU
- Antiplane shear crack in a prestressed elastic medium based on the couple
stress theory (583)
Jian CHEN, Yawei WANG, Xianfang LI
- Dynamic coupled thermo-hydro-mechanical problem for heterogeneous deep-sea
sediments under vibration of mining vehicle (603)
Wei ZHU, Xingkai MA, Xinyu SHI, Wenbo MA
- Model-based adaptive locomotion and clustering control of microparticles through
ultrasonic topological charge modulation (623)
H. S. LEE, H. X. CAO, D. JUNG, C. S. KIM
- Three-dimensional mixed convection stagnation-point flow past a vertical
surface with second-order slip velocity (641)
A. V. ROŞCA, N. C. ROŞCA, I. POP
- Effect of periodic heat transfer on the transient thermal behavior of a
convective-radiative fully wet porous moving trapezoidal fin (653)
B. J. GIREESHA, M. L. KEERTHI
- Computational analysis for fractional characterization of coupled
convection-diffusion equations arising in MHD flows (669)
M. HAMID, M. USMAN, Zhenfu TIAN

ISSN 0253-4827

CN 31-1650/O1

Domestic: ¥ 40
Overseas: \$ 178

