

Q K 1 7 3 4 4 4 6

ISSN 0253-4827

CN 31-1650/O1

CODEN AMMEEQ

AMM

APPLIED MATHEMATICS AND MECHANICS

(English Edition)



Vol. 38 No. 11 Nov. 2017



Editorial Office of AMM



Springer

CONTENTS

Commenced in May 1980

Vol. 38 No. 11 Nov. 2017 (Monthly)

Equivalent inclusions in micromechanics with interface energy effect	(1497)
Zhenguo ZHANG, Yongqiang CHEN, Zhuping HUANG	
Complex variable approach in studying modified polarization saturation model in two-dimensional semipermeable piezoelectric media	(1517)
S. SINGH, K. SHARMA, R. R. BHARGAVA	
Nonlinear oscillations of sigmoid functionally graded material plates moving in longitudinal direction	(1533)
Yanqing WANG, J. W. ZU	
Model predictive control of rigid spacecraft with two variable speed control moment gyroscopes	(1551)
Pengcheng WU, Hao WEN, Ti CHEN, Dongping JIN	
Comprehensive investigation of stress intensity factors in rotating disks containing three-dimensional semi-elliptical cracks	(1565)
M. FAKOOR, S. M. N. GHOREISHI	
Effects of second diffusing component and cross diffusion on primary and secondary thermoconvective instabilities in couple stress liquids	(1579)
R. RAVI, C. KANCHANA, P. G. SIDDHESHWAR	
Interaction of weak free-stream disturbance with an oblique shock: validation of the shock-capturing method	(1601)
Caihong SU, Jinlei GENG	
Hydromagnetic thin film flow of Casson fluid in non-Darcy porous medium with Joule dissipation and Navier's partial slip	(1613)
G. S. SETH, R. TRIPATHI, M. K. MISHRA	
A closure model on velocity structure functions in homogeneous isotropic turbulence	(1627)
Le FANG, Feng GAO	
Algorithm for transient growth of perturbations in channel Poiseuille flow	(1635)
Jianlei ZHANG, Gang DONG, Yi LI	

ISSN 0253-4827

ISSN 0253-4827
CN 31-1650/O1



11>

CONTENTS

Commenced in May 1980

Vol. 38 No. 11 Nov. 2017 (Monthly)

Equivalent inclusions in micromechanics with interface energy effect	(1497)
Zhenguo ZHANG, Yongqiang CHEN, Zhuping HUANG	
Complex variable approach in studying modified polarization saturation model in two-dimensional semipermeable piezoelectric media	(1517)
S. SINGH, K. SHARMA, R. R. BHARGAVA	
Nonlinear oscillations of sigmoid functionally graded material plates moving in longitudinal direction	(1533)
Yanqing WANG, J. W. ZU	
Model predictive control of rigid spacecraft with two variable speed control moment gyroscopes	(1551)
Pengcheng WU, Hao WEN, Ti CHEN, Dongping JIN	
Comprehensive investigation of stress intensity factors in rotating disks containing three-dimensional semi-elliptical cracks	(1565)
M. FAKOOR, S. M. N. GHOREISHI	
Effects of second diffusing component and cross diffusion on primary and secondary thermoconvective instabilities in couple stress liquids	(1579)
R. RAVI, C. KANCHANA, P. G. SIDDHESHWAR	
Interaction of weak free-stream disturbance with an oblique shock: validation of the shock-capturing method	(1601)
Caihong SU, Jinlei GENG	
Hydromagnetic thin film flow of Casson fluid in non-Darcy porous medium with Joule dissipation and Navier's partial slip	(1613)
G. S. SETH, R. TRIPATHI, M. K. MISHRA	
A closure model on velocity structure functions in homogeneous isotropic turbulence	(1627)
Le FANG, Feng GAO	
Algorithm for transient growth of perturbations in channel Poiseuille flow	(1635)
Jianlei ZHANG, Gang DONG, Yi LI	

ISSN 0253-4827

ISSN 0253-4827
CN 31-1650/O1



11>