



QK1924441

ISSN 0253-4827

CN 31-1650/O1

CODEN AMMEEQ

**AMM**

# APPLIED MATHEMATICS AND MECHANICS


(English Edition)



**Vol. 39 No. 11 Nov. 2018**

应用数学和力学(英文版)

**AM** Editorial Office of AMM

 **Springer**

万方数据

# CONTENTS

Commenced in May 1980

Vol. 39 No. 11 Nov. 2018 (Monthly)

Clean numerical simulation: a new strategy to obtain reliable solutions of chaotic dynamic systems .....	(1529)
Xiaoming LI, Shijun LIAO	
A simultaneous space-time wavelet method for nonlinear initial boundary value problems .....	(1547)
Jizeng WANG, Lei ZHANG, Youhe ZHOU	
Two-way coupled analysis of lithium diffusion and diffusion induced finite elastoplastic bending of bilayer electrodes in lithium-ion batteries .....	(1567)
Jun YIN, Xianjun SHAO, Bo LU, Yicheng SONG, Junqian ZHANG	
Identifying the temperature effect on the vibrations of functionally graded cylindrical shells with porosities .....	(1587)
Yanqing WANG, Chao YE, J. W. ZU	
Effects of the Reynolds number on a scale-similarity model of Lagrangian velocity correlations in isotropic turbulent flows .....	(1605)
Zhaoyu SHI, Jincai CHEN, Guodong JIN	
Investigation of generalized Fick's and Fourier's laws in the second-grade fluid flow .....	(1617)
T. HAYAT, S. AHMAD, M. I. KHAN, A. ALSAEDI	
Tubular limiting stream surface: "tornado" in three-dimensional vortical flow .....	(1631)
Shuhai ZHANG	
Response of a hypersonic blunt cone boundary layer to slow acoustic waves with assessment of various routes of receptivity .....	(1643)
Bingbing WAN, Jisheng LUO, Caihong SU	
General decay of energy to a nonlinear viscoelastic two-dimensional beam .....	(1661)
B. LEKDIM, A. KHEMMOUDJ	
Optimization of a global seventh-order dissipative compact finite-difference scheme by a genetic algorithm .....	(1679)
Yu LIN, Yaming CHEN, Chuanfu XU, Xiaogang DENG	

ISSN 0253-4827  
CN 31-1650/O1



ISSN 0253-4827  
9 770253 482182 1 1>

# CONTENTS

Commenced in May 1980

Vol. 39 No. 11 Nov. 2018 (Monthly)

Clean numerical simulation: a new strategy to obtain reliable solutions of chaotic dynamic systems .....	(1529)
Xiaoming LI, Shijun LIAO	
A simultaneous space-time wavelet method for nonlinear initial boundary value problems .....	(1547)
Jizeng WANG, Lei ZHANG, Youhe ZHOU	
Two-way coupled analysis of lithium diffusion and diffusion induced finite elastoplastic bending of bilayer electrodes in lithium-ion batteries .....	(1567)
Jun YIN, Xianjun SHAO, Bo LU, Yicheng SONG, Junqian ZHANG	
Identifying the temperature effect on the vibrations of functionally graded cylindrical shells with porosities .....	(1587)
Yanqing WANG, Chao YE, J. W. ZU	
Effects of the Reynolds number on a scale-similarity model of Lagrangian velocity correlations in isotropic turbulent flows .....	(1605)
Zhaoyu SHI, Jincai CHEN, Guodong JIN	
Investigation of generalized Fick's and Fourier's laws in the second-grade fluid flow .....	(1617)
T. HAYAT, S. AHMAD, M. I. KHAN, A. ALSAEDI	
Tubular limiting stream surface: "tornado" in three-dimensional vortical flow .....	(1631)
Shuhai ZHANG	
Response of a hypersonic blunt cone boundary layer to slow acoustic waves with assessment of various routes of receptivity .....	(1643)
Bingbing WAN, Jisheng LUO, Caihong SU	
General decay of energy to a nonlinear viscoelastic two-dimensional beam .....	(1661)
B. LEKDIM, A. KHEMMOUDJ	
Optimization of a global seventh-order dissipative compact finite-difference scheme by a genetic algorithm .....	(1679)
Yu LIN, Yaming CHEN, Chuanfu XU, Xiaogang DENG	

ISSN 0253-4827  
CN 31-1650/O1



ISSN 0253-4827  
9 770253 482182 1 1>