



VOLUME 9 ISSUE 1 | January 2019 |

ISSN 2095-0349
CN 11-5991/03

TAML

THEORETICAL
& APPLIED
MECHANICS
LETTERS

力学快报（英文）



Institute of Mechanics,
Chinese Academy of Sciences



The Chinese Society of
Theoretical and Applied Mechanics

taml.cstam.org.cn

CONTENTS

Solid Mechanics

- An energy approach to predict electromigration induced grain rotation under high current density
Y.X. Wang, Y. Yao 21
- Effects of interfacial discontinuity on the fracture behavior in the superconductor-substrate system
L. Jiang, X.Q. Ren, Z.W. Gao, Y.H. Zhou 43
- Investigation on structural component behaviours of double bottom arrangement under grounding accidents
A.R. Prabowo, T. Muttaqie, J.M. Sohn, B.I.R. Harsritanto 50

Fluid Mechanics

- Seepage-stress coupled modeling for rainfall induced loess landslide
D.Y. Zhou, Z. Zhang, J.C. Li, X.L. Wang 7
- Key structure in laminar-turbulent transition of boundary layer with streaky structures
J. Yoshikawa, Y. Nishio, S. Izawa, Y. Fukunishi 32
- Electrokinetic flow in the U-shaped micro-nanochannels
B.L. Qiu, L.Y. Gong, Z.R. Li, J.Y. Han 36

Dynamics and Control

- Optimal control of a mobile robot on sphere
H.G. Liu, D.H. Shi 27

Biomechanics and Interdiscipline

- Lattice Boltzmann model of percutaneous drug absorption
A. Safdari, K.C. Kim 1
- Dependency of gamma oscillations in E/I neuronal network on illumination contrast of external stimulus
X.C. Gu, F. Han, Z.J. Wang, X. Peng 14



Available online at www.sciencedirect.com

ScienceDirect



ISSN 2095-0349



Local Post Office Code No. 82-766