

ISSN: 0567-7718

CN: 11-2063/03

AMS ACTA MECHANICA SINICA

Volume 34 · Number 4 · August 2018



Reducing the anisotropy of a Brazilian disc generated in a bonded-particle model

Q. Zhang · X. P. Zhang · P. Q. Ji



The Chinese Society of
Theoretical and
Applied Mechanics



Institute of Mechanics,
Chinese Academy
of Sciences



Springer

FLUID MECHANICS

- 601 **Application of particle splitting method for both hydrostatic and hydrodynamic cases in SPH**
W.T. Liu · P.N. Sun · F.R. Ming · A.M. Zhang
- 614 **Theoretical analysis for the mechanical behavior caused by an electromagnetic cycle in ITER Nb₃Sn cable-in-conduit conductors**
D. Yue · X. Zhang · Y.-H. Zhou
- 623 **An efficient unstructured WENO method for supersonic reactive flows**
W.-G. Zhao · H.-W. Zheng · F.-J. Liu · X.-T. Shi · J. Gao · N. Hu · M. Lv · S.-C. Chen · H.-D. Zhao
- 632 **Study of droplet flow in a T-shape microchannel with bottom wall fluctuation**
Y. Pang · X. Wang · Z. Liu
- 644 **A novel method for predicting the power outputs of wave energy converters**
Y. Wang

SOLID MECHANICS

- 653 **Structural eigenvalue analysis under the constraint of a fuzzy convex set model**
W. Sun · Z. Yang · G. Chen
- 667 **Three-point bending of honeycomb sandwich beams with facesheet perforations**
P. Su · B. Han · Z. Zhao · Q. Zhang · T.J. Lu
- 676 **Explicit frequency equations of free vibration of a nonlocal Timoshenko beam with surface effects**
H.-S. Zhao · Y. Zhang · S.-T. Lie
- 689 **A refined finite element method for bending analysis of laminated plates integrated with piezoelectric fiber-reinforced composite actuators**
J. Rouzegar · A. Abbasi
- 706 **Numerical computation of central crack growth in an active particle of electrodes influenced by multiple factors**
Y. Zhang · Z. Guo
- 716 **Reducing the anisotropy of a Brazilian disc generated in a bonded-particle model**
Q. Zhang · X.P. Zhang · P.Q. Ji
- 728 **Isogeometric analysis of free-form Timoshenko curved beams including the nonlinear effects of large deformations**
S.F. Hosseini · A. Hashemian · B. Moetakef-Imani · S. Hadidimoud
- 744 **An improved dynamic model for a silicone material beam with large deformation**
Q. Xu · J. Liu

DYNAMICS, VIBRATION, AND CONTROL

- 754 **Review of deployment technology for tethered satellite systems**
B.S. Yu · H. Wen · D.P. Jin
- 769 **Multibody dynamic analysis using a rotation-free shell element with corotational frame**
J. Shi · Z. Liu · J. Hong
- 781 **A frequency-domain method for solving linear time delay systems with constant coefficients**
M. Jin · W. Chen · H. Song · J. Xu

ams.cstam.org.cn

www.springer.com/journal/10409

Local Post Office Code No. 2-703



**ACTA
MECHANICA
SINICA**
力学季刊(英文版)

ISSN 0567-7718



9 770567 771187

FLUID MECHANICS

- 601 **Application of particle splitting method for both hydrostatic and hydrodynamic cases in SPH**
W.T. Liu · P.N. Sun · F.R. Ming · A.M. Zhang
- 614 **Theoretical analysis for the mechanical behavior caused by an electromagnetic cycle in ITER Nb₃Sn cable-in-conduit conductors**
D. Yue · X. Zhang · Y.-H. Zhou
- 623 **An efficient unstructured WENO method for supersonic reactive flows**
W.-G. Zhao · H.-W. Zheng · F.-J. Liu · X.-T. Shi · J. Gao · N. Hu · M. Lv · S.-C. Chen · H.-D. Zhao
- 632 **Study of droplet flow in a T-shape microchannel with bottom wall fluctuation**
Y. Pang · X. Wang · Z. Liu
- 644 **A novel method for predicting the power outputs of wave energy converters**
Y. Wang

SOLID MECHANICS

- 653 **Structural eigenvalue analysis under the constraint of a fuzzy convex set model**
W. Sun · Z. Yang · G. Chen
- 667 **Three-point bending of honeycomb sandwich beams with facesheet perforations**
P. Su · B. Han · Z. Zhao · Q. Zhang · T.J. Lu
- 676 **Explicit frequency equations of free vibration of a nonlocal Timoshenko beam with surface effects**
H.-S. Zhao · Y. Zhang · S.-T. Lie
- 689 **A refined finite element method for bending analysis of laminated plates integrated with piezoelectric fiber-reinforced composite actuators**
J. Rouzegar · A. Abbasi
- 706 **Numerical computation of central crack growth in an active particle of electrodes influenced by multiple factors**
Y. Zhang · Z. Guo
- 716 **Reducing the anisotropy of a Brazilian disc generated in a bonded-particle model**
Q. Zhang · X.P. Zhang · P.Q. Ji
- 728 **Isogeometric analysis of free-form Timoshenko curved beams including the nonlinear effects of large deformations**
S.F. Hosseini · A. Hashemian · B. Moetakef-Imani · S. Hadidimoud
- 744 **An improved dynamic model for a silicone material beam with large deformation**
Q. Xu · J. Liu

DYNAMICS, VIBRATION, AND CONTROL

- 754 **Review of deployment technology for tethered satellite systems**
B.S. Yu · H. Wen · D.P. Jin
- 769 **Multibody dynamic analysis using a rotation-free shell element with corotational frame**
J. Shi · Z. Liu · J. Hong
- 781 **A frequency-domain method for solving linear time delay systems with constant coefficients**
M. Jin · W. Chen · H. Song · J. Xu

ams.cstam.org.cn

www.springer.com/journal/10409

Local Post Office Code No. 2-703



**ACTA
MECHANICA
SINICA**
力学季刊(英文版)

ISSN 0567-7718



9 770567 771187