

CONTENTS

- Free vibration and buckling analysis of functionally graded carbon nanotube-reinforced composite beams on Pasternak foundation under high-order shear deformation theory YANG Lijun, PENG Linxin, CHEN Wei (1)
- Simulation method and dynamic performances research of the heavy-haul locomotive and its 102-type coupler and draft gear ZHANG Zhichao, LÜ Kaikai, CHU Gaofeng, QI Hongrui, WANG Fangwen (12)
- Investigation on transient unsteady cavitation vortex structures and the pressure wave dynamics WANG Zihao, SUN Tiezhi, ZHANG Guiyong (22)
- Probability of detection of cracks in metal structures using guided wave based on a signal response analysis model WANG Li, YANG Yu, LIU Guoqiang, WANG Xiaguang, LI Jiaxin, REN Yipeng (32)
- Experimental study on the cavitation flow and the induced vibration characteristics of a mixed-flow water-jet pump GONG Bo, ZHANG Zhengchuan, YIN Junlian, XU Rui, LI Ning, WANG Dezhong (42)
- Constant QZS isolator based on the negative stiffness mechanism of two pairs of oblique bars ZHAO Feng, HUO Yaqi, CHEN Lumin, DU Wenliao, CAO Shuqian, FENG Guizhen (52)
- Vibration characteristics of a rocket engine flow pipeline under external excitation SU Yong, HE Jiang, ZHANG Miao, GONG Wuqi (60)
- Nonlinear finite element analysis on the wind-induced vibration of a tension suspension-braced transmission structure LI Zhengliang, WANG Bangjie, WANG Tao (71)
- Meshless method for the bending and modal analysis of FG-GRC plates based on the improved Reddy type third order shear deformation theory YANG Lijun, CHEN Kong, CHEN Wei (79)
- Motion performance of a semi-submersible platform based on model-free adaptive control YU Yang, ZHANG Penghui, CHENG Siyuan, ZHANG Wenhao, YU Jianxing (88)
- Breakage property and the cumulative deformation model of red sandstone coarse-grained soil LONG Yao, ZHANG Tongwen, LI Jianping, ZHANG Jiasheng, XIAO Yuanjie (97)
- Dynamic load characteristics of an airport runway bridge during aircraft landing based on co-simulation MENG Xianfeng, HAO Xingyan, IANG Hui, WU Songhua, CAO Tiezhi, LUO Meng, SUN Yongxue (105)
- Characteristics analysis and parameter design of a bending vibrational conical horn based on two kinds of beam theories CHANG Tingting, SHEN Feng, BAO Siyuan (114)
- Seismic performances of prefabricated assembled piers connected with corrugated pipes in high intensity seismic areas LIU Bin, HUANG Yongfu, SONG Yanchen, HAN Qiang, BAI Hongtao, DING Kai (123)
- Stability improvement of the transfer matrix method when calculating the high frequency vibration of a pipeline conveying fluid CAO Yinhang, LIU Gongmin, HU Zhi (138)
- Experimental study on the wind pressure characteristics of a UHV converter station roof in different wind fields WANG Zhisong, WANG Yujie, YU Bo, XU Qing, HE Yong, LI Zhengliang (146)
- Lightweight fault diagnosis framework towards a liquid rocket engine turbopump based on Hessian locally linear embedding and MLP-Mixer DOU Wei, ZHAO Dongfang, ZHANG Hongli, LIU Shulin (156)
- Sound source identification method based on constrained $L_{1/2}$ norm sparse regularization PAN Wei, LI Yuanwen, FENG Daofang, LI Min (166)
- Dynamic optimization of macro parameters of large mining gear transmission system YANG Xiaoxin, XIAO Lu, YANG Xiaodong, LI Qiqi, GAO Xiaoxin, JIN Pengcheng (179)

Research progress on the Reynolds number effect in bridge wind engineering	..... LIU Qingkuan, HAN Yuan, SUN Yifei, ZHENG Yunfei (187)
Transformer noise reduction method based on multilayer hexagonal membrane-type acoustic metamaterial	XIE Zelong, YANG Tingfang, LIU Hanyao, ZHOU Huikang, WANG Runpu, SHAN Songyi, ZHOU Qianghui (201)
Experimental study on the dynamic characteristics of the pile group foundation of a base-isolated structure on variable stiffness ground	..... YU Xu, SHAN Zhicheng, ZHUANG Haiyang, CHEN Guoxing (208)
Experimental study on the instantaneous pressure characteristics of a pressurized pulsed water jet	..... ZHANG Yangkai, LU Yiyu, TANG Jiren, LING Yuanfei (219)
Evaluation of the axial stress in bolts based on the ultrasonic multi-scale attenuation method	..... YU Xin, CHEN Ping, HU Yiliang, FU Tong, LI Changze (226)
Influence of the structural clearance on the shimmy characteristics of the landing gear during ground taxiing	..... RUAN Shuang, ZHANG Ming, NIE Hong (234)
Mechanical modeling and experimental analysis of a single tendon-sheath artificial muscle	..... YANG Mingxing, XIA Yulei, LIU Qingyun, TANG Guoqing, ZHENG Jinde (244)
Numerical simulation of seismic tests for pre-tensioned prestressing precastbridge columns with socket connection	..... JIA Junfeng, WANG Zhaozhi, XU Kun, ZHANG Xiangyang, SONG Chengzhe (254)
Monitoring the corrosion of reinforced concrete using the ultrasonic coda wave method	..... LÜ Duo, XU Jiahao, HU Hongwei, YI Shanchang, WANG Lei (264)
Dynamic frequency and wet mode of the supporting cables of a submerged floating tunnel in tube motion state	..... ZHU Can, LIU Yan, YI Zhuangpeng (271)
Isogeometric modeling and analysis of piezoelectric integrated functionally graded porous plates reinforced by graphene platelets	..... LIU Qingyun, LIU Kangren, ZHANG Hongyi, LIU Tao (280)
Semi-analytical modelling of a dish-shaped acoustic black hole coupling system based on the Gaussian expansion method and research on the vibration damping mechanism of broadband tuning	..... DING Yuan, SHI Kaiyao, ZHENG Ling (291)
Fault diagnosis of the gas valve of a diesel engine under uncertain load based on PSD-SVM	..... NIE Haomiao, CHE Chidong (299)
Evolution of cavitation structure and collapse load characteristics during underwater vehicle exiting-water process	..... GAO Shan, SHI Yao, PAN Guang (306)
Supersonic LCO responses of composite panels with consideration of transient aerodynamic heating effect	..... LIU Yating, DUAN Jingbo, XU Buqing, GAO Yihang (315)
Pendulum vibration analysis and suppression of a power transmission line inspection robot with variable center of gravity	..... FAN Xing, LI Xiaopeng, PENG Jianwen, LIU Bingfei (323)
Sound radiation characteristics and noise reduction measure of a traction transformer used in the municipal train	..... HUANG Jiacheng, XIAO Xinbiao, WANG Qi, DU Xing, ZHOU Shunyuan, DU Yelin (334)

JOURNAL OF VIBRATION AND SHOCK

Vol. 43 No. 2 JANUARY 2024

Editorial Office: 1954 Huashan Rd. Shanghai, 200030, China

Issuer Abroad: China National Publishing Industry Trading Corporation
(Post-Office Box No. 728, Beijing, China)
