

CONTENTS

- A simulation approach for solving the site-city-interaction effects under oblique incident waves on a community-scale BA Zhenning, FU Jisai, WANG Fangbo, LIANG Jianwen, NIU Jiaqi (1)
- Two-parameter dynamics of an impact oscillator with a pre-compressed spring LÜ Xiaohong, WANG Jipei, ZHANG Jintao (12)
- A study on an excitation method of the target mode of ultrasonic guided waves DING Taotao, GUO Yu, XIANG Yanxun (20)
- Research on dynamic interaction between above ground building-group and subway tunnel-group under incident plane SV-waves LIU Zhongxian, WANG Jianxu, JIN Liguo (27)
- Research on scaling law of boundary tearing damage of stiffened plates for ship subjected to underwater explosion load GAO Peng, YAN Ming, ZHANG Quan, DU Zhipeng (38)
- A study on dynamic modeling and active vibration control of intelligent constrained layer damped structures HUANG Zhicheng, HUANG Fan, WANG Xingguo, CHU Fulei (45)
- A load inversion model of the axle box bearing of a high-speed train and optimal match of key parameters TANG Jia, CHI Maoru, YANG Chen, MA Zikui, YAO Xuesong, LUO Yun (52)
- Transverse stiffness characteristics analysis of air springs based on the precise transfer matrix method CHENG Yuqiang, CAI Cunguang, GAO Hua, SHUAI Changgeng (61)
- Dynamic performance of the turbogenerator rigid frame foundation of a 1 000 MW double-reheat unit DU Linlin, YUE Fangfang, WANG Jinpei, WANG Hao, SHAO Xiaoyan, HU Yunxia, LI Weike (69)
- A study on modal characteristics of combined rotor shafting under axial preload LI Weibo, WANG Weimin, LI Ming, WANG Wei, ZHANG Shuai (76)
- Research on cumulative plastic strain characteristics of granite residual soil under cyclic loading YIN Song, LIU Pengfei, SUN Yuzhou, LI Xinming, YAN Pan, WANG Zhiliu (87)
- A study on impact reduction of a honeycomb core exposed platform based on a flexible bag damper XIAO Wangqiang, HUANG Zijie, LIU Hanwu, QIAN Haikun (96)
- In-plane compression tunable stiffness characteristics of star-triangular honeycomb with negative Poisson's ratio WEI Lulu, XU Shiwei, ZHU Guohua, ZHAO Xuan (105)
- Seismic behaviour test and numerical calculation on special-shaped bifurcated CFT short column with multiple cavities WU Haipeng, CUI Shurong, ZHONG Zhiwei, WANG Xiaomeng, GAN Mai, CAO Wanlin (115)
- Practical closed-form solutions for free vibration of non-circular arches HU Changfu, ZHU Shunshun, ZHANG Xin, LUO Wenjun (125)
- Research on weak feature extraction of turning chatter base on SSA and bistochastic resonance WU Fei, LUAN Tianyu, NONG Haoye (134)
- Experimental study on dynamic mechanical failure characteristics of concrete specimens with cracks of different angles WU Xu, FANG Hui, PAN Jiliang, XI Xun, SUN Jinglai, ZHANG Yingcai (142)
- A semi-supervised fault diagnosis model based on a teacher-student network GAO Yucai, FU Zhongguang, XIE Yucun, WANG Shiyun (150)
- Research on rub-impact response of a flexible connected rotor with a special limiter LI Shitu, BAI Yujie, YANG Xuan, WU Tingwei (158)

Additional aggravation features of seismic motion atop of 2D sedimentary basin: SV wave incidence case	YU Yanyan, DING Haiping, RUI Zhiliang (166)
An operational modal analysis method fusing multi-condition power spectral density function	ZENG Shuhong, KANG Jie, SUN Jiabao, LUO Jie (179)
Constitutive response of subway slab track self-compacting concrete based on the energy conversion principle	CHEN Junhao, ZENG Xiaohui, XIE Youjun, LONG Guangcheng, TANG Zhuo (190)
Research on vortex vibration performance and vibration suppression measures of wide streamlined steel box girder with water supply pipe	LI Chunguang, LI Hejia, CHEN Sai, HAN Yan (199)
A study on multi-degree-of-freedom coupled hydrodynamic characteristics of a novel two-body wave energy converter	GU Xingyuan, NIU Yubo, ZHENG Yang, HE Peijie, CHEN Qijuan (207)
An adaptive model updating method for hybrid simulation based on global sensitivity analysis	CHEN Zaixian, WANG Jiwei, ZHONG Weipeng, LIU Cheng, LI Minggang (215)
Noise reduction and feature extraction of acoustic emission signals from floating ring seals based on IA-VMD	ZHANG Shuai, DING Junhua, DING Xuexing, LI Ning (222)
Study on influence rule of a lining structure on high speed driving of reactive fragment	JIAO Xiaolong, WANG Yuanjing, WU Zongya, XU Yuxin (230)
DEM-MBD coupled modelling and analysis for the mutual interaction of lunar rover and moon soil	XU Hong, LEI Bo, LIU Jinyang (239)
A study on response regularity of fishing line fixed plum vase based on a shaking table test	YANG Weiguo, GAO Yawei, WANG Meng, LIU Pei, GE Jiaqi, ZOU Xiaoguang (250)
Improved attention mechanism for intelligent fault diagnosis of experimental rotor systems in aero engines	WU Jigang, WEN Gang, YANG Kang (261)
Improved multi-task fault diagnosis of hydraulic pump and rolling bearing with multiple sample sizes	ZHENG Zhi, ZENG Kuikui, HE Yuling, LI Ke, WANG Zhijun (270)
Research on bearing remaining useful life prediction based on an MsTCN-Transformer model	DENG Feiyue, CHEN Zhe, HAO Rujiang, YANG Shaopu (279)
Multiple fault diagnosis based on PCA-BNs with a small number of samples	WANG Jinhua, MA Xuehua, YUE Lianghui, AN Yongsheng, CAO Jie (288)
A study on some basic concepts in the application of structural dynamics	ZHANG Kaiyin, SUN Qi, XIONG Sidong, JIANG Ziling (297)
Experimental study on cyclic tensile performance of tube column and H beam welded joint using Q460 high strength steel	LIANG Gang, LU Zhihan, LIU Yunhe, GUO Hongchao (303)
Experimental research on coupled axial-torsional vibration of drill strings	LI Xinye, LI Xingpeng, LI Kai, ZHANG Huabiao, CHEN Tao (314)

JOURNAL OF VIBRATION AND SHOCK

Vol. 43 No. 4 FEBRUARY 2024

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

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