

ISSN 1000-310X
CN 11-2121/O4

应用声学

Journal of Applied Acoustics

第 39 卷

Vol.39

中国科学院声学研究所 主办



科学出版社
Science Press

出版

4
2020

应 用 声 学

(YINGYONG SHENGXUE)

(双月刊)

第 39 卷 第 4 期 2020 年 7 月

目 次

研究报告

一种基于序贯估计的直达声区水面舰船被动测距方法·····	张雪冬 牛海强 吴立新 (491)
利用频域 β -warping 变换的浅海目标航向估计方法·····	董 阁 郭良浩 徐 鹏 闫 超 (501)
一种快速有效的正弦波信号频率估计方法·····	温兵会 毛卫宁 (512)
基于模式能量比的海底声衰减系数反演·····	刘 婷 曾 娟 刘 彪 (518)
近场聚焦逆波束形成的 UUV 平台噪声自适应抵消·····	宁江波 李淑秋 李 宇 叶青华 (527)
水下声学浮标南中国海海洋环境噪声实测分析·····	韩 梅 王 超 孙芹东 王文龙 吕 勇 (536)
不同浓度的尾砂胶结充填体破坏过程声发射特性试验研究·····	
····· 赵 奎 谢文健 曾 鹏 龚 函 卓毓龙 於鑫佳 杨泽元 刘周超 (543)	
椭球粒子声辐射力计算及分析·····	王明升 欧阳杰 刘 浩 崔自宪 (550)
超声换能器对线性调频信号脉冲压缩性能的影响分析·····	王 强 毛 捷 廉国选 (558)
利用激光多普勒测振仪的空气耦合超声声场测量·····	吴 樵 周雨轩 廉国选 王小民 (563)
轴类超声检测的波束扩散成像·····	张 琪 胡 斌 陈 乐 原可义 (570)
基于周向 SH0 导波的管道轴向缺陷定量表征·····	贾九红 刘天阳 刘学成 廖作雨 张显程 (581)
10 kV 交联聚乙烯电缆中超声波传播规律·····	
····· 倪 辉 吴旭涛 余海博 程养春 何宁辉 马 波 马云龙 李日东 郑夏晖 邢 琳 (589)	
单颗金刚石切削无氧铜的声发射关联维特征·····	吴海勇 (598)
一种能量比调控的有源噪声控制算法·····	
····· 肖梦迪 陈卫松 钱隆彦 吴 慧 (611)	
四阶带通箱的自回归滑动平均模型·····	陈 立 田 兴 夏 洁 沈 勇 (618)
不同声音偏好的游客声景观主观评价差异——以丽江大研古镇为例·····	
····· 杨玲玲 张 捷 徐一帆 陈 雪 (625)	
调节水床效应的双梯度有源噪声控制自适应算法·····	吴礼福 陈晶晶 郭业才 (632)
干式变压器有限元仿真模型的电磁和振动分析·····	陆 昕 周 雄 钱帅伟 潘 笑 (638)

声学新闻和动态

用于挥发性气体检测的声表面波器件的环境特性研究·····	王 文 (557)
基于激光多普勒测振仪的透明固体二维动态应力场测量·····	安志武 (580)

JOURNAL of APPLIED ACOUSTICS (BIMONTHLY)

Vol. 39, No. 4, July, 2020

CONTENTS

Research Articles

Passive tracking of a surface ship in the direct zone using sequential parameter estimation···ZHANG Xuedong NIU Haiqiang WU Lixin (491)

Target course estimation based on frequency β -warping transform in shallow water···DONG Ge GUO Lianghao XU Peng YAN Chao (501)

A fast and effective sinusoidal signal frequency estimation··········WEN Binghui MAO Weining (512)

Inversion of seabed attenuation based on modal ratios··········LIU Ting ZENG Juan LIU Biao (518)

Adaptive cancellation of UUV self-noise based on the inverse focusing beamforming in near field··········

··········NING Jiangbo LI Shuqiu LI Yu YE Qinghua (527)

Measurement and analysis of ambient noise in the South China Sea based on underwater acoustic buoy··········

··········HAN Mei WANG Chao SUN Qindong WANG Wenlong LYU Yong (536)

Experimental study on AE characteristics of cemented tailings backfill failure process with different concentration··········

··········ZHAO Kui XIE Wenjian ZENG Peng GONG Cong ZHUO Yulong YU Xinjia YANG Zeyuan LIU Zhouchao (543)

Calculation and analysis on acoustic radiation force by a fixed spheroid······WANG Mingsheng OUYANG Jie LIU Hao CUI Zixian (550)

Analysis of the influence of ultrasonic transducer on pulse compression performance of chirp signal··········

··········WANG Qiang MAO Jie LIAN Guoxuan (558)

Air-coupled ultrasound acoustic field measurements using laser Doppler vibrometers··········

··········WU Qiao ZHOU Yuxuan LIAN Guoxuan WANG Xiaomin (563)

Image method of shaft ultrasonic detection based on beam diffusion··········ZHANG Qi HU Bin CHEN Le YUAN Keyi (570)

Quantitative characterization of axial defects in pipes based on circumferential SH0 waves··········

··········JIA Jiahong LIU Tianyang LIU Xuecheng LIAO Zuoyu ZHANG Xiancheng (581)

The propagation characteristics of ultrasonic wave on 10 kV XLPE cable··········

··········NI Hui WU Xutao YU Haibo CHENG Yangchun HE Ninghui MA Bo MA Yunlong LI Ridong ZHENG Xiahui XING Lin (589)

The correlation dimension characteristics of acoustic emission for single diamond cutting oxygen free copper··········WU Haiyong (598)

An algorithm of energy ratio for the active noise control system··········XIAO Mengdi CHEN Weisong QIAN Longyan WU Hui (611)

Autoregressive moving average model of fourth-order band-pass loudspeaker systems······CHEN Li TIAN Xing XIA Jie SHEN Yong (618)

Soundscape subjective evaluation based on tourists' preference: a case study of Dayan ancient town··········

··········YANG Lingling ZHANG Jie XU Yifan CHEN Xue (625)

Adaptive double-gradient active noise control algorithms for tuning waterbed effect··········WU Lifu CHEN Jingjing GUO Yecai (632)

Electromagnetic and vibration analysis of dry transformer finite element simulation model··········

··········LU Xin ZHOU Xiong QIAN Shuaiwei PAN Xiao (638)

Acoustics Highlight·········· (557, 580)