

第 42 卷

Vol.42

1 2023

应用声学

(YINGYONG SHENGXUE)

(双月刊)

第42卷 第1期 2023年1月

目次

研究报告

研究报告			
两扬声器虚拟声重放的双耳声压控制与定位性能	·李枚锖	谢菠荪	刘路路(1)
大气声传播通道的声源当量估计方法程 巍	滕鹏晓	吕 君	张天予 (12)
听觉感知中的噪声特性语义描述及其分析李 豪 陈克安 尹秋阳 张 珺	俞贵涛	殷久超	李 晗 (18)
基于 Transformer 编码器的合成语声检测系统·····	万 伊	杨飞然	杨 军 (26)
基于弹性波超表面的 Lamb 波透射调控······	杨华根	冯 侃	李 容 (34)
包含外壳磁阻的微型平衡电枢换能器仿真模型的阻抗和振动分析		·廖灿杰	韦峻峰 (42)
基于传递路径的变速箱噪声分析	罗 挺	田鑫	刘 年 (51)
基于时频分帧能量熵的陶瓷制品敲击声波信号特征识别刘利平 蒋柳成	乔乐乐	孙 建	高世妍 (57)
Mel 频率倒谱系数平滑的耳机均衡 李光炬 罗平展	钱 鹏	甘维明	邢 锰 (67)
汉语儿童情感语声合成		·胡航烨	王 蔚 (76)
铁镓 Janus-Helmholtz 换能器非线性驱动·······赵佳恒	莫喜平	柴 勇	刘永平 (84)
三维声传播模型 BELLHOP3D 的信息传递接口并行优化······	·周益清	骆文于	吴双林 (93)
电动式换能器声源级起伏改善实验研究杨 洋	桑永杰	刘茂伊	蓝 宇 (100)
理想浅海波导中声场奇异点与声源深度的关系王泽茜	李 建	张 振	顾明宇 (107)
氧化铟锡薄膜的磁感应热声分析王 成 李 双	邱 鑫	范学良	李 成 (116)
固-固界面退化特性的超声反射评价方法徐 帆	吴 坤	许才彬	邓明晰 (123)
气体物理性质对近场超声悬浮特性的影响研究李荣和 桑汉德 陈 爽 赵 夙	王志晖	谌江涛	罗庸生 (131)
球壳换能器电声效率测量方法及声场特性分析陈锦灵 王月兵	赵 鹏	邢广振	李荣基 (138)
B 型套筒角焊缝缺陷相控阵超声检测定量方法			
刘 琰 吴宇轩 杨锋平 陶荣德 张鸿博	贾鹏军	裴翠祥	邓 刚 (145)
混合物介质中声波尾波成因的随机过程分析郑康琳	王 陶	樊 平	李 萍 (154)
基于声发射统计信息的 2.25Cr-1Mo 钢早期损伤判别方法 王雪琴 邱 枫	彭宁伟	姚俊宇	张 颖 (159)
基于超声回波重组相位分析的颗粒粒径测量方法"谭红王力虎	梁维刚	陈代勇	郁 凡 (166)
综述			
纳米载体负载声敏剂的研究进展和挑战李晗寅	杨瑞昊	陶 可	孙 康 (172)
			` '

基于定量分析的气固两相流声速模型综述……………………宋志江 胡尚锋 李言钦 (182)

JOURNAL of APPLIED ACOUSTICS (BIMONTHLY)

Vol. 42, No. 1, January, 2023

CONTENTS

Research Articles

Energy e	stimation of explosion sound source based on the ratio of the energy of different tube
	CHENG Wei TENG Pengxiao LYU Jun ZHANG Tianyu (
	description and analysis of noise characteristics in auditory perception description.
	LI Hao CHEN Ke'an YIN Qiuyang ZHANG Jun YU Guitao YIN Jiuchao LI Han (
	mer encoder-based spoofing countermeasure for synthetic speech detection
	ive transmission control based on elastic wave metasurface YANG Huagen FENG Kan LI Rong
Impedan	ce and vibration analysis of the simulation model of the miniature balanced armature transducer including the magnetoresistance
	ell······LIAO Canjie WEI Junfen (
	transmission gear noise based on transfer path analysis
	sound signal characteristics recognition of ceramic products based on time-frequency framing energy entropy
	LIU Liping JIANG Liucheng QIAO Lele SUN Jian GAO Shiyan (
	ased smoothing for equalization of headphone-to-eardrum transfer function
	LI Guangju LUO Pingzhan QIAN Peng GAN Weiming XING Meng (
	e speech synthesis of Chinese children HU Hangye WANG Wei
	The Hambye will be the second of the second
The nonl	inear driving manner of iron-gallium Janus-Helmholtz transducer·····ZHAO Jiaheng MO Xiping CHAI Yong LIU Yongping
	passing interface parallel optimization of 3D sound propagation model BELLHOP3D
	ZHOU Yiqing LUO Wenyu WU Shuanglin
	ental research on improving source level fluctuation of moving coil projector
LAPCITIII	YANG Yang SANG Yongjie LIU Maoyi LAN Yu
	ship between singular points of the acoustic field in the ideal shallow waveguide and source depth
Kelation	
	WANG ZEAL ELITANG ZHOLL GO MINISYU
Induction	n thermoacoustic analysis and application of the Indium Tin Oxide film·····
	WANG Cheng LI Shuang QIU Xin FAN Xueliang LI Cheng
	sonic reflection evaluation method of solid-solid interfacial degradation XU Fan WU Kun XU Caibin DENG Mingxi
	on the influence of gas physical properties on near-field acoustic levitation characteristics
	surement method of electroacoustic efficiency of spherical shell transducer and character analysis for acoustic field
	CHEN Jinling WANG Yuebing ZHAO Peng XING Guangzhen LI Rongji
	ntitative method of phased array ultrasonic testing for type-B sleeve fillet weld defects
	LIU Yan WU Yuxuan YANG Fengping TAO Rongde ZHANG Hongbo JIA Pengjun PEI Cuixiang DENG Gang
	of coda formation of acoustic waves in mixtures by stochastic process······ ZHENG Kanglin WANG Tao FAN Ping LI Ping (
	mage identification method of 2.25Cr-1Mo steel based on acoustic emission statistics
n	WANG Xueqin QIU Feng PENG Ningwei YAO Junyu ZHANG Ying
	size measurement based on ultrasonic echo phase analysis and recombination
	TAN Hong WANG Lihu LIANG Weigang CHEN Daiyong YU Fan
ews	
Recent n	rogress and challenges of nanocarriers in sonodynamic therapyLI Hanyin YANG Ruihao TAO Ke SUN Kang