

## 目 次

### ■ 油气勘探

中国海油地震勘探技术进展与发展方向.....	李绪宣	朱振宇	张金森( 1 )
东非海岸坦桑尼亚盆地烃源岩特征与油气来源.....	孙玉梅	孙 涛	许志刚( 13 )
珠江口盆地文昌 A 凹陷中深层原油来源及成藏特征			
..... 陆 江 周 刚 郑榕芬 陈亚兵 张 霞 尤 丽 吴杨瑜 徐守立 刘 才( 20 )			
云南恩洪-老厂煤层气勘查区地质特征及勘探开发策略 ... 贾高龙 莫日和 赖文奇 袁 瑞 张三科( 29 )			
基于 Contourlet 系数相关性的地震噪声压制方法 ..... 王建花 王守东 刘燕峰( 35 )			
一种适用于任意高阶间断有限元的高精度非分裂完全匹配层吸收边界方法			
..... 何洋洋 翁 斌 张金森( 41 )			
渤海海域中生界火山岩测井-地质岩性综合识别方法 ... 叶 涛 韦阿娟 高坤顺 吴庆勋 赵弟江( 48 )			

### ■ 油气田开发

储层内部小尺度构型单元界面等效表征方法..... 霍春亮 叶小明 高振南 王利芝 王鹏飞( 54 )					
珠江口盆地高束缚水饱和度成因低阻油层地质控制因素及分布规律差异					
..... 居字龙 唐 辉 刘伟新 姚光庆 叶 青( 60 )					
海上稠油油田化学驱潜力评价方法及其应用 ... 谢晓庆 康晓东 张贤松 石 文 曾 杨 侯 健( 69 )					
注 CO <sub>2</sub> 驱替物理模拟相似准则					
..... 何应付 高慧梅( 75 )					
基于改进粒子群算法的不规则井网自动优化 ... 丁帅伟 姜汉桥 周代余 赵 冀 旷曦域 白 鹏( 80 )					

### ■ 钻采工程

深水钻井沿隔水管超声波气侵实时监测技术研究					
..... 耿亚楠 李轶明 朱 磊 马昭华 朱连望 周云健( 86 )					
西湖凹陷中央洼陷区下部地层岩石力学特征与可钻性实验研究					
..... 孙东征 张海山 段飞飞 严维锋 石祥超( 93 )					
深水喷射扰动对表层导管承载力的影响规律 ... 周 波 杨 进 周建良 刘书杰 刘正礼 杨建刚( 98 )					
海上油田丛式井平台位置优化方法研究与应用					
..... 李 滨 刘书杰 耿亚楠 岳家平(103)					
半潜式钻井平台螺杆泵测试技术研发与应用推广					
..... 姚振河 关利军 代一丁(109)					
气举设计适应性评价新方法——气举工况诊断节点分析法					
..... 罗 威 廖锐全 许冬进 张祖国 柯文奇 谢向威(114)					

### ■ 海洋工程

陆丰 7-2 油田导管架平台上部组块低位浮托安装关键技术					
..... 原庆东(120)					
基于非线性环理论的管道上卷弯曲屈曲分析					
..... 廖洪千 王立权 李怀亮 刘 军 李松羽(126)					
BIPTVAS-II 型轴向涡流分离器工程样机及其在流花 11-1 油田的现场试验					
..... 姬宜朋 陈家庆 蔡小磊 李 平 王春升 尚 超 张 明(133)					
长距离水下生产复合电液控制系统电力分析与设计					
..... 胡意茹 魏 激 李 强 刘国锋 张 炜 洪 毅(139)					
涠洲油田群生产水减排方案研究与实践					
..... 董志恒 罗 军 李学强(146)					

## CONTENTS

### ■ PETROLEUM EXPLORATION

- The progress and direction of seismic exploration technology in CNOOC ..... Li Xuxuan Zhu Zhenyu Zhang Jinmiao( 1 )  
Source rock characteristics and oil-gas origins in Tanzania basin, East Africa coast ..... Sun Yumei Sun Tao Xu Zhigang( 13 )  
Oil origin and accumulation characteristics in middle-deep strata of Wenchang A sag, Pearl River Mouth basin ..... Lu Jiang Zhou Gang Zheng Rongfen Chen Yabing Zhang Xia You Li Wu Yangyu Xu Shouli Liu Cai( 20 )  
CBM geological characteristics and exploration and development strategy of Enhong-Laochang exploration blocks, Yunnan province ..... Jia Gaolong Mo Rihe Lai Wenqi Yuan Shen Zhang Sanke( 29 )  
Seismic noise suppression method based on correlation of Contourlet coefficients ..... Wang Jianhua Wang Shoudong Liu Yanfeng( 35 )  
A new algorithm of high precision unsplit perfectly matched layer absorbing boundary for the arbitrary high-order discontinuous Galerkin finite element ..... He Yangyang Weng Bin Zhang Jimiao( 41 )  
Lithology comprehensive identification method with logging-geology data of Mesozoic volcanic rocks in Bohai sea ..... Ye Tao Wei Ajuan Gao Kunshun Wu Qingxun Zhao Dijiang( 48 )

### ■ OIL AND GAS FIELD DEVELOPMENT

- Equivalent characterization method of small scale reservoir configuration unit interface ..... Huo Chunliang Ye Xiaoming Gao Zhennan Wang Lizhi Wang Pengfei( 54 )  
Geological controlling factors and distribution pattern difference for low-resistivity oil layer caused by high irreducible water saturation in Pearl River Mouth basin ..... Ju Zilong Tang Hui Liu Weixin Yao Guangqing Ye Qing( 60 )  
Chemical flooding potential evaluation method in offshore heavy oilfields and its application ..... Xie Xiaoqing Kang Xiaodong Zhang Xiansong Shi Yao Zeng Yang Hou Jian( 69 )  
Similarity criterion of physical simulation for CO<sub>2</sub> flooding ..... He Yingfu Gao Huimei( 75 )  
Automatic optimization of irregular well pattern based on modified particle swarm algorithm ..... Ding Shuaiwei Jiang Hanqiao Zhou Daiyu Zhao Ji Kuang Xiyu Bai Peng( 80 )

### ■ DRILLING AND PRODUCTION ENGINEERING

- Study on real-time ultra-sonic kick detection technique along riser during deep water drilling operations ..... Geng Yanan Li Yiming Zhu Lei Ma Zhaohua Zhu Lianwang Zhou Yunjian( 86 )  
Experimental study on mechanics and drillability of lower strata rock in central subsag of Xihu sag ..... Sun Dongzheng Zhang Haishan Duan Feifei Yan Weifeng Shi Xiangchao( 93 )  
Pattern of influence of disturbance caused by jetting on bearing capacity of surface conductor in deep water zones ..... Zhou Bo Yang Jin Zhou Jianliang Liu Shujie Liu Zhengli Yang Jiangang( 98 )  
Research and application of platform location optimization for cluster wells in offshore oilfields ..... Li Bin Liu Shujie Geng Yanan Yue Jiaping(103)  
Development and dissemination of testing technology for progressive cavity pumps on semi-submerged platforms ..... Yao Zhenhe Guan Lijun Dai Yiding(109)  
A new method for assessing the adaptability of gas lift design; nodal analysis for gas lift operation diagnosis ..... Luo Wei Liao Ruiquan Xu Dongjin Zhang Zuguo Ke Wenqi Xie Xiangwei(114)

### ■ OCEAN ENGINEERING

- Strand jack lifting techniques for topside float-over installation on jacket platforms in LF 7-2 oilfield ..... Yuan Qingdong(120)  
Analysis on buckling performance of pipe in reeling based on nonlinear ring theory ..... Liao Hongqian Wang Liquan Li Huailiang Liu Jun Li Songyu(126)  
A BIPTVAS-II voraxial separator prototype and its pilot test in LH 11-1 oilfield ..... Ji Yipeng Chen Jiaqing Cai Xiaolei Li Ping Wang Chunsheng Shang Chao Zhang Ming(133)  
Electrical analysis and design of long-distance subsea production electro-hydraulic control systems ..... Hu Yiru Wei Che Li Qiang Liu Guofeng Zhang Hao Hong Yi(139)  
Research and practice for reducing produced water emission in Weizhou oilfields ..... Dong Zhiheng Luo Jun Li Xueqiang(146)