



中文核心期刊
山东省优秀期刊

ISSN 1673-5005
CN 37-1441/TE

中国石油大学

JOURNAL OF CHINA UNIVERSITY OF PETROLEUM

学报

自然科学版

2013·2

第37卷 第2期 总第196期

Vol.37 No.2 Sum.196

ZHONGGUO SHIYOU DAXUE XUEBAO

万方数据

目 次

中国石油大学学报

(自然科学版)

· 双月刊

2

2013

第37卷·总第196期

· 石油地质与勘查工程 ·

基于砂岩组构分类评价的储层渗透率预测

····· 孟万斌, 吕正祥, 唐宇, 冯明石(1)

塔中奥陶系碳酸盐岩储层缝洞特征

····· 唐洪, 谢琳, 苏波, 韩涛(7)

水下分流河道单砂体剩余油分布规律与挖潜对策

····· 徐慧, 林承焰, 雷光伦, 宫保, 范彩匣(14)

济阳坳陷断裂演化与油气富集规律

····· 方旭庆, 蒋有录, 罗霞, 赵兰全, 杨永红(21)

渤海湾盆地东濮凹陷压力演化与超压形成机制

····· 孙波, 蒋有录, 石小虎, 刘景东, 郝建光(28)

陇东地区延长组构造裂缝方解石脉特征及其与烃类流体活动的关系

····· 郭凯, 曾溅辉, 李元昊, 刘涛涛(36)

过套管电阻率测井仪器刻度及井下测量数值模拟

····· 耿敏, 梁华庆, 尹洪东, 刘得军, 高杨(43)

· 石油钻采工程 ·

水力射流降低井底压差技术

····· 朱海燕, 邓金根, 何玉发, 李斌, 谢玉洪, 黄凯文, 赵靖影(50)

水平定向钻穿越施工中钻井液渗透对孔壁塑性半径的影响

····· 曾聪, 马保松, 刘厚平(57)

井壁失稳风险评价方法

····· 魏凯, 管志川, 廖华林, 史玉才, 刘永旺(62)

考虑启动压力梯度的低渗透油藏污染井压裂增产新模型

····· 何勇明, 李思民, 张燕, 张浩(67)

碳酸盐岩双孔隙数字岩心结构特征分析

····· 王晨晨, 姚军, 杨永飞, 王鑫, 汲广胜, 高莹(71)

常规稠油边水油藏氮气泡沫抑制水侵试验

····· 王杰祥, 王腾飞, 任文龙, 韩蕾, 夏金娜(75)

修正混合规则的 BWRS 型状态方程及其在 CO₂-原油体系相态

计算中的应用

····· 廉黎明, 秦积舜, 刘同敬, 李实, 姬泽敏, 第五鹏翔(81)

影响特低-超低渗透砂岩油藏开发效果的因素分析

····· 齐亚东, 雷群, 于荣泽, 晏军, 刘学伟, 战剑飞(89)

· 石油机械工程 ·

- 基于稳健独立分量分析的转子故障信息增强方法
 段礼祥, 胡 智, 张来斌(95)
- 基于 TDLAS 的管道泄漏检测载机飞行路径规划
 刘海芳, 王 瑞, 钟诗胜(102)
- 海上油气井油层套管井口装定载荷设计
 刘秀全, 陈国明, 陈 超, 畅元江, 陈黎明, 张伟国, 谢 华(107)
- 冷热原油顺序输送过程的热力分析..... 李传宪, 施 静(112)
- 压应力对特殊螺纹套管材料腐蚀的影响
 王新虎, 尹成先, 王建东(119)
- 输气管道泄漏音波信号传播特性及预测模型
 孟令雅, 付俊涛, 李玉星, 刘翠伟, 刘光晓(124)
- K 型管节点焊接残余应力及其对应力集中系数的影响
 蒙古彬(130)

· 石油化学工程 ·

- 鄂尔多斯盆地南部延长组有效烃源岩地球化学特征及其识别标志
 ... 邓南涛, 张枝焕, 鲍志东, 王付斌, 梁全胜, 李文浩, 等(135)
- 气体压迫多孔介质中聚合物的凝胶行为
 贾 虎, 赵金洲, 廖 然, 蒲万芬(146)
- 预交联凝胶颗粒与十二烷基硫酸钠的相互作用
 刘述忍, 康万利, 白宝君, 赵昊阳, 孟令伟(153)
- 可见光响应复合高效光催化剂的制备及应用
 刘 倩, 郑经堂, 刘萌萌, 吴明铂, 江 波, 朱海云(158)

· 自动控制、信息技术与基础科学 ·

- 基于综合目标函数的神经网络多新息辨识算法
 徐宝昌, 刘新乐(165)
- 基于动态结构保持主元分析的故障检测方法
 张 妮, 田学民, 蔡连芳(170)
- 一种基于线性化 Bregman 迭代的图像去模糊新方法
 乔田田, 王际朝, 李维国, 吴勃英(176)
- 基于 JASON-1 高度计的海况偏差校正参数模型
 李书光, 王云海, 苗洪利, 周晓光, 任浩然, 王桂忠, 张 杰(181)
- 给定直径和悬挂点数的树的拉普拉斯系数..... 谭尚旺, 王奇龙(186)
- 基于信赖域技术和修正拟牛顿方程的非单调超记忆梯度算法
 官恩龙, 陈双双, 孙清滢, 陈颖梅(191)

本期责任编辑

李志芬

微机排版

杨 丽

本期英文编审

徐会永

技术编辑

韩国良

JOURNAL OF CHINA UNIVERSITY OF PETROLEUM

(Edition of Natural Science)

Vol. 37 No. 2 Sum. No. 196 Apr. 2013

CONTENTS

PETROLEUM GEOLOGY AND GEOPHYSICAL EXPLORATION ENGINEERING

- Reservoir permeability prediction based on sandstone texture classification
..... MENG Wan-bin, LÜ Zheng-xiang, TANG Yu, FENG Ming-shi(1)
- Fracture and vug character of Ordovician carbonate reservoir in Tazhong Oilfield
..... TANG Hong, XIE Lin, SU Bo, HAN Tao(7)
- Remaining oil distribution law and potential tapping measures of subaqueous distributary channel single sandbody
..... XU Hui, LIN Cheng-yan, LEI Guang-lun, GONG Bao, FAN Cai-xia (14)
- Relationship between faults evolution and hydrocarbon enrichment in Jiyang depression
..... FANG Xu-qing, JIANG You-lu, LUO Xia, ZHAO Lan-quan, YANG Yong-hong(21)
- Pressure evolution and formation mechanism of overpressure in Dongpu depression, Bohaiwan Basin
..... SUN Bo, JIANG You-lu, SHI Xiao-hu, LIU Jing-dong, HAO Jian-guang(28)
- Geochemical characteristics of tectonic fracture-filling calcite in Yanchang formation of Longdong area
and its relationship with hydrocarbon fluid flow
..... GUO Kai, ZENG Jian-hui, LI Yuan-hao, LIU Tao-tao(36)
- Numerical simulation of resistivity logging through casing on instrument calibration and down-hole measurement
..... GENG Min, LIANG Hua-qing, YIN Hong-dong, LIU De-jun, GAO Yang(43)

PETROLEUM DRILLING AND PRODUCTION ENGINEERING

- Reducing bottom-hole differential pressure by hydraulic jet
..... ZHU Hai-yan, DENG Jin-gen, HE Yu-fa, LI Bin, XIE Yu-hong, HUANG Kai-wen, ZHAO Jing-ying(50)
- Effect of drilling fluid penetration on plastic radius of horizontal directional drilling borehole
..... ZENG Cong, MA Bao-song, LIU Hou-ping(57)
- Assessment method of borehole instability risk
..... WEI Kai, GUAN Zhi-chuan, LIAO Hua-lin, SHI Yu-cai, LIU Yong-wang(62)
- New fracture stimulation model considering starting pressure gradient for contaminated wells
in low permeability reservoir HE Yong-ming, LI Si-min, ZHANG Yan, ZHANG Hao(67)
- Structure characteristics analysis of carbonate dual pore digital rock
..... WANG Chen-chen, YAO Jun, YANG Yong-fei, WANG Xin, JI Guang-sheng, GAO Ying(71)
- Experiment on nitrogen foam anti-edge water invasion in normal heavy oil reservoir with edge water
..... WANG Jie-xiang, WANG Teng-fei, REN Wen-long, HAN Lei, XIA Jin-na(75)
- A BWRS type EOS based on modified mixing-rule and its application in phase behavior of CO₂-crude system
..... LIAN Li-ming, QIN Ji-shun, LIU Tong-jing, LI Shi, JI Ze-min, DIWU Peng-xiang(81)
- Analysis on factors influencing development effect of extra-ultra low permeability sandstone reservoirs
..... QI Ya-dong, LEI Qun, YU Rong-ze, YAN Jun, LIU Xue-wei, ZHAN Jian-fei(89)

PETROLEUM MECHANICAL ENGINEERING

- Method of rotor fault information enhancement based on robust independent component analysis
..... *DUAN Li-xiang, HU Zhi, ZHANG Lai-bin*(95)
- Path planning of helicopter flight with borne detector based on TDLAS for pipeline leaks detection
..... *LIU Hai-fang, WANG Rui, ZHONG Shi-sheng*(102)
- Design of landing load for production casing in offshore oil and gas wells
... *LIU Xiu-quan, CHEN Guo-ming, CHEN Chao, CHANG Yuan-jiang, CHEN Li-ming, ZHANG Wei-guo, XIE Hua*(107)
- Thermal analysis on batch pipelining of cold and hot crude oil with different temperatures
..... *LI Chuan-xian, SHI Jing*(112)
- Influence of compressive stress on corrosion of premium connection casing material
..... *WANG Xin-hu, YIN Cheng-xian, WANG Jian-dong*(119)
- Propagating characteristics of acoustic leakage signal in natural gas pipeline and establishment of prediction model
..... *MENG Ling-ya, FU Jun-tao, LI Yu-xing, LIU Cui-wei, LIU Guang-xiao*(124)
- Welding residual stress of K-joint and its influence on stress concentration factor
..... *MENG Zhan-bin*(130)

PETROLEUM CHEMICAL ENGINEERING

- Geochemical features and identification marks for efficient source rocks of Yanchang formation in southern Ordos Basin
..... *DENG Nan-tao, ZHANG Zhi-huan, BAO Zhi-dong, WANG Fu-bin, LIANG Quan-sheng, LI Wen-hao, et al*(135)
- Mechanism of gas compressing polymer gel in porous media
..... *JIA Hu, ZHAO Jin-zhou, LIAO Ran, PU Wan-fen*(146)
- Interaction of preformed particle gel and sodium dodecyl sulfate
..... *LIU Shu-ren, KANG Wan-li, BAI Bao-jun, ZHAO Hao-yang, MENG Ling-wei*(153)
- Preparation and application of a high efficient composite photocatalyst of visible light activity
..... *LIU Qian, ZHENG Jing-tang, LIU Meng-meng, WU Ming-bo, JIANG Bo, ZHU Hai-yun*(158)

AUTOMATIC CONTROL, INFORMATION TECHNOLOGY AND BASIC SCIENCE

- Multi-innovation identification algorithm of neural network based on generalized objective function
..... *XU Bao-chang, LIU Xin-le*(165)
- Fault detection method based on dynamic structure preservation principal component analysis
..... *ZHANG Ni, TIAN Xue-min, CAI Lian-fang*(170)
- A new algorithm based on linearized Bregman iteration for image deblurring
..... *QIAO Tian-tian, WANG Ji-chao, LI Wei-guo, WU Bo-ying*(176)
- A parametric model of estimating sea state bias based on JASON-1 altimetry
... *LI Shu-guang, WANG Yun-hai, MIAO Hong-li, ZHOU Xiao-guang, REN Hao-ran, WANG Gui-zhong, ZHANG Jie*(181)
- Laplacian coefficients of trees with given diameter and number of pendant vertices
..... *TAN Shang-wang, WANG Qi-long*(186)
- A non-monotone super-memory gradient method based on trust region technique and modified quasi-Newton equation ... *GONG En-long, CHEN Shuang-shuang, SUN Qing-ying, CHEN Ying-mei*(191)