

目次

· 石油地质与勘查工程 ·

石灰泥岩——一种陆源机械成因的碳酸盐岩

…………… 邱隆伟, 姜在兴, 梁宏斌, 黎承银, 孙宝强(1)

准噶尔盆地乌夏地区中下三叠统地震沉积学研究

…………… 查明, 李秀鹏, 曾洪流, 杨俊生(8)

成岩作用对塔河油田二区奥陶系碳酸盐岩储集空间发育的影响

…………… 牛永斌, 钟建华, 王培俊, 单婷婷, 李润泽(13)

饶阳凹陷任西断层的封闭性 …… 崔殿, 查明, 高长海, 吴兆辉(20)

油气沿断裂走向运移研究

…………… 陈伟, 吴智平, 侯峰, 李伟, 侯旭波(25)

准噶尔盆地达巴松凸起白垩系油气成藏研究

…………… 蓝文芳, 曹剑, 王绪龙, 张越迁, 向宝力, 孙平安, 吴明(31)

车西洼陷南坡油气成藏和富集的主控因素

…………… 万涛, 蒋有录, 林会喜, 彭传圣, 毕彩芹(38)

样品扩充法识别火成岩 …… 谭伏霖, 王志章, 隆山, 董彦喜(45)

鄂尔多斯盆地胡尖山地区延长组烃源岩分析

…………… 刚文哲, 高岗, 韩永林, 沈霞, 范泓澈(50)

· 石油钻采工程 ·

结构参数对气体钻井防沉屑工具性能的影响

…………… 祝效华, 刘少胡, 童华(56)

基于密度测井资料计算上覆岩层压力的不确定性分析

…………… 臧艳彬, 王瑞和, 李新芝, 步玉环, 何英明, 周波(60)

深水钻井井涌动态模拟 …… 高永海, 孙宝江, 赵欣欣, 王志远(66)

基于粗糙集理论和支持向量机的套管损坏动态预报方法

…………… 周延军, 贾江鸿, 李荣华(71)

实钻条件下破碎能耗的分形评价方法

…………… 李玮, 闫铁, 毕雪亮, 苏鹏, 孙维国(76)

考虑流量误差的B样条压力反褶积模型及其应用

…………… 胡小虎, 郑世毅(80)

多井信息综合对比分析方法及其应用 …… 崔猛, 翟应虎, 程荣超(86)

利用注采开发数据反演油藏井间动态连通性

…………… 赵辉, 姚军, 吕爱民, 王伟(91)

用隐式非线性方法预测注水井吸水剖面

…………… 隋义勇, 李治平, 王继强, 叶银珠, 李彦来(95)

注空气采油井产出气体燃爆特性

…………… 于洪敏, 左景来, 任韶然, 吉亚娟, 周乐平, 林伟民(99)

· 石油机械工程 ·

局部投影降噪在往复压缩机故障诊断中的应用	段礼祥, 张来斌, 李 峰(104)
灰色决策在常减压塔顶换热器改造中的应用	王正方, 王 勇(109)
水平定向钻回拖载荷预测模型及其特征参数敏感性分析	蔡亮学, 何利民, 王 鑫, 薛振兴(114)
自升式平台齿轮齿条强度有限元分析	曹宇光, 张 卿, 张士华(120)
稠油注蒸汽热采过程中地层稳定性分析评价	孙 峰, 仝兴华, 薛世峰(125)
造斜段弯曲钻柱非线性动力学分析与仿真	伊 鹏, 刘衍聪, 石永军, 郭 欣, 任红伟(129)

· 石油炼制与化工 ·

基于反滴加-共沉淀法的水基 Fe_3O_4 磁流体制备及性能表征	姜翠玉, 宋 浩, 宋林花, 宋光伟, 耿 毅, 王钰新(136)
大港减压渣油的光催化氧化	王艳秋, 周立雪, 魏贤勇, 赵锁奇, 鲍晓军(141)
锌铝类水滑石催化酯化高酸原油脱酸	黄延召, 朱建华, 王艳艳, 武本成(147)
用于渤海油田疏水缔合聚合物驱的表面活性剂降压增注研究	王业飞, 于海洋, 张 健, 李先杰, 陈五花, 王所良(151)
用荧光法分析大庆油田驱油用两亲聚合物的缔合行为	孟令伟, 康万利, 范海明, 蔚新艳, 吴晓燕(157)
循环水中生物黏泥生长动力学及其控制	马 涛, 赵朝成, 刘 芳, 张 培, 夏 璐(161)

· 管理工程, 信息技术与基础科学 ·

基于库诺特模型的天然气管道一体化研究	董秀成, 周仲兵, 李君臣, 佟金辉, 尹海彤(168)
一种动态加速因子的自适应微粒群优化算法	陈 华, 范宜仁, 邓少贵(173)
量子棒中强耦合磁极化子基态能量的磁场和温度依赖性	额尔敦朝鲁, 乌云其木格, 宝日玛(177)
分形与广义分形空间的统一框架及广义分形序列的极限	沈 晨(181)
下期要目	(37)

本期责任编辑	本期英文编审
刘为清	修荣荣
微机排版	技术编辑
杨 丽	韩国良

JOURNAL OF CHINA UNIVERSITY OF PETROLEUM

(*Edition of Natural Science*)

Vol. 34 No. 6 Sum. No. 182 Dec. 2010

CONTENTS

PETROLEUM GEOLOGY AND GEOPHYSICAL EXPLORATION ENGINEERING

Limemudstone: a kind of carbonate rock of terrigenous mechanical origin

..... QIU Long-wei, JIANG Zai-xing, LIANG Hong-bin, LI Cheng-yin, SUN Bao-qiang(1)

Seismic sedimentology study of Middle and Lower Triassic in Wu-Xia area, Junggar Basin

..... ZHA Ming, LI Xiu-peng, ZENG Hong-liu, YANG Jun-sheng(8)

Effect of diagenesis on accumulate capability of Ordovician carbonate rock in block 2 of Tahe Oilfield

..... NIU Yong-bin, ZHONG Jian-hua, WANG Pei-jun, SHAN Ting-ting, LI Run-ze (13)

Fault sealing of Renxi fault in Raoyang depression

..... CUI Dian, ZHA Ming, GAO Chang-hai, WU Zhao-hui(20)

Study on hydrocarbon migration along fault strike

..... CHEN Wei, WU Zhi-ping, HOU Feng, LI Wei, HOU Xu-bo(25)

Petroleum migration and accumulation in Cretaceous of Dabasang uplift of central Junggar Basin

..... LAN Wen-fang, CAO Jian, WANG Xu-long, ZHANG Yue-qian, XIANG Bao-li, SUN Ping-an, WU Ming(31)

Main controlling factors of hydrocarbon accumulation and enrichment in the southern slope of Chexi sag

..... WAN Tao, JIANG You-lu, LIN Hui-xi, PENG Chuan-sheng, BI Cai-qin(38)

Igneous rock identification based on sample expansion method

..... TAN Fu-lin, WANG Zhi-zhang, LONG Shan, DONG Yan-xi(45)

Analysis of source rock of Yanchang formation in Hujianshan area, Ordos Basin

..... GANG Wen-zhe, GAO Gang, HAN Yong-lin, SHEN Xia, FAN Hong-che(50)

PETROLEUM DRILLING AND PRODUCTION ENGINEERING

Influence of structural parameter on performance of cuttings falling-prevent tool in gas drilling

..... ZHU Xiao-hua, LIU Shao-hu, TONG Hua(56)

Uncertainty analysis of calculating overburden pressure based on density logging data

..... ZANG Yan-bin, WANG Rui-he, LI Xin-zhi, BU Yu-huan, HE Ying-ming, ZHOU Bo(60)

Dynamic simulation of kicks in deepwater drilling

..... GAO Yong-hai, SUN Bao-jiang, ZHAO Xin-xin, WANG Zhi-yuan(66)

Dynamic prediction method of casing damage based on rough set theory and support vector machine

..... ZHOU Yan-jun, JIA Jiang-hong, LI Rong-hua(71)

Fractal evaluation method of crushing energy consumption in actual drilling process

..... LI Wei, YAN Tie, BI Xue-liang, SU Peng, SUN Wei-guo(76)

A new B-splines pressure deconvolution algorithm considering rate measurement errors and its application

..... HU Xiao-hu, ZHENG Shi-yi(80)

Multi-well data comprehensive analysis method and its application

..... CUI Meng, ZHAI Ying-hu, CHENG Rong-chao(86)

Reservoir interwell dynamic connectivity inversion based on injection and production data

..... ZHAO Hui, YAO Jun, LÜ Ai-min, WANG Wei(91)

Prediction of water injection profile using implicit nonlinear method

..... SUI Yi-yong, LI Zhi-ping, WANG Ji-qiang, YE Yin-zhu, LI Yan-lai(95)

Explosion characteristics of oil well produced gas by air injection for improved oil recovery

..... YU Hong-min, ZUO Jing-luan, REN Shao-ran, JI Ya-juan, ZHOU Le-ping, LIN Wei-min(99)

PETROLEUM MECHANICAL ENGINEERING

Application of local projection method for noise reduction to fault diagnosis of reciprocating compressor

..... DUAN Li-xiang, ZHANG Lai-bin, LI Feng(104)

Application of grey decision to atmospheric-vacuum distillation unit exchangers rebuilding

..... WANG Zheng-fang, WANG Yong(109)

Prediction model of pulling loads in horizontal directional drilling installations and its characteristic

parameter sensitivity analysis CAI Liang-xue, HE Li-min, WANG Xin, XUE Zhen-xing(114)

Strength analysis of rack and pinion of jack-up platform by finite element method

..... CAO Yu-guang, ZHANG Qing, ZHANG Shi-hua(120)

Evaluation of formation stability in heavy oil reservoir of steam injection thermal production

..... SUN Feng, TONG Xing-hua, XUE Shi-feng(125)

Nonlinear dynamics analysis and simulation of bending drill-strings in kick-off section

..... YI Peng, LIU Yan-cong, SHI Yong-jun, GUO Xin, REN Hong-wei(129)

PETROLEUM REFINING AND CHEMICAL ENGINEERING

Preparation and characterization of water-based Fe_3O_4 magnetic fluid by reverse titration coprecipitation method

..... JIANG Cui-yu, SONG Hao, SONG Lin-hua, SONG Guang-wei, GENG Yi, WANG Yu-xin(136)

Photo-catalysis oxidation of Dagang vacuum residue

..... WANG Yan-qiu, ZHOU Li-xue, WEI Xian-yong, ZHAO Suo-qi, BAO Xiao-jun(141)

Removal of naphthenic acids from high acid crude oil through catalytic esterification on zinc-aluminum

hydrotalcite-like compounds HUAGN Yan-zhao, ZHU Jian-hua, WANG Yan-yan, WU Ben-cheng(147)

Study on decompression and augmented injection by surfactants during hydrophobically associating polymer flooding in Bohai Oilfield

..... WANG Ye-fei, YU Hai-yang, ZHANG Jian, LI Xian-jie, CHEN Wu-hua, WANG Suo-liang(151)

Association property analysis of hydrophobic associating polymers for oil displacement in Daqing Oilfield using fluorescence probe method

..... MENG Ling-wei, KANG Wan-li, FAN Hai-ming, WEI Xin-yan, WU Xiao-yan(157)

Growth kinetics of biofouling in recirculated water and its control

..... MA Tao, ZHAO Chao-cheng, LIU Fang, ZHANG Pei, XIA Lu(161)

MANAGEMENT ENGINEERING, INFORMATION TECHNOLOGY AND BASIC SCIENCES

Natural gas pipeline integration research based on Cournot model

..... DONG Xiu-cheng, ZHOU Zhong-bing, LI Jun-chen, TONG Jin-hui, YIN Hai-tong(168)

Adaptive particle swarm optimization algorithm with dynamic acceleration factor

..... CHEN Hua, FAN Yi-ren, DENG Shao-gui(173)

Magnetic fields and temperature dependences of ground state energy of magnetopolaron in quantum rod

..... Eerdunchaolu, Wuyunqimuge, Baorima(177)

Consolidated frame for fractal and generalized fractal space and limit of sequence of generalized fractals

..... SHEN Chen(181)