Contents

Papers

Physics

Effects and Solutions of SHPB Experimental Waveform Oscillation YE Ren-chuan, TIAN A-li, SHEN Chao-ming(9)

Geosciences

Research on Characteristics of Coal Reservoir Porosity and Fractal Law in Yichuan Area of the Ordos Basin

...... SUN Chang-hua, TANG Shu-heng, WAN Yi,
JIANG Wen, FAN Er-ping, ZHANG Cheng-long,
SUN Peng-jie(9)

The Effect of Different Demineralization Ways on Oil Shale Retort Characteristics ZHANG Xue-qing, ZHANG Lan-ying, QIAN Yong, REN He-jun(13)

Biology

He-Ne Laser Mutation Effects on External Morphology and Physiology of *Allium cepa var. aggregatum* ··· GAO Bo, ZHANG Can-bang, CAI Xiao-jun, LI He, ZHANG Ju-cheng, TIAN Jia-jin(18)

Petroleum Technology

BI Xue-liang, WANG Peng, KAI Yue, HAN Fu-wei(22)

Instrumental Technology

Condition Evaluation of Bearing-rotor Based on Kernel Principal Component Analysis and Gaussian Mixture Model

...... DONG Hua-yu(28)

Power Technology

Effect of the Length of Sintering on the Heat Transfer Performance of Composite-wicked Heat Pipes

..... CHEN Chun-yan,

LI Yong, ZENG Zhi-xin, CHEN Chuang-xin(35)

Mechanic-Electrical Technology

Low Voltage Ride through Control Strategy for Double-stage Photovoltaic System ······ CHENG Yong-le, WANG Bing, ZHOU Jian-liang(40)

Communicational Technology

The Influence of Low-frequency Frequency and Oxygen Content in Ar-O₂ Dual-frequency Capacitively Coupled Plasmas
...... JIANG Xiang-zhan, ZHANG Ji, LI Wen-liang,
YAO Hong-bin, LIU Yong-xin, LIU Jia (58)

The Design of Digital Down Conversion System in Satellite Channel Simulator

Volume 14 Number 1(Sum 290)

...... GUO Ye-cai, ZHANG Tao, YUAN Tao (58)

Fast Linear Frequency Modulation Interference Excision in DSSS System Using Fractional Fourier Transform

······· SHEN Li-ran, GUO Li-li, YIN Qing-bo(71)

Computational Technology

A Research on Semi-supervised Fuzzy Clustering

...... WANG Qiu-ping, SUN Liang, GUAN Ji-shi,ZHUANG Yuan (71)

The Study on Lower Limbs Rehabilitation Evaluation Strategy Based on Exoskeletons Rehabilitation Robot

..... CHENG Gui-liang, ZHAO Yue,

WANG Ge, ZHANG Yuan-chun, LIU Geng-qian (76) The Study of Mixture Clustering Algorithm Based on Mani-

fold Distance MA Meng(80)

Iris Feature Extraction Based on Haar Wavelet

..... SUN Dong, ZHOU Jun, WEI Yong(85)

Improved Method of Obstacle Detection Based on V-disparity
....... LIN Chuan, SONG Wei-qi, QIN Jin-fei(90)

Navel Orange WSN Monitoring Data Fusion Method Based on Compressed Sensing Gannan LEI Li-xia,

ZHANG Yue-jin, HUNG De-chang(95)

Chemical Industry Technology

Experiment Study on the Stimulating Characteristics of Slagfly Ash Cementitious Material System to Different Alkali-activator

··· BAI Er-lei, XU Jin-yu, LI Hao, ZHANG Tong(99)

Traffics and Transportations

Research on Front Vehicle Detection and Longitudinal Safety Distance Warning Method

..... DUAN Xiang, YANG Wei(104)

Analysis of Diesel Engine Excitation and Its Effects on Vibration of Diesel Locomotive Cab

...... HUANG Peng, XIAO Shou-ne, YANG Guang-wu, ZHOU Li-sha(118)

Design of L₂ Control for Nonlinear Submarine Vertical System under Mismatched Conditions WU Hao-rong,

HU Da-bin, LIN Xiong-wei, XIAO Jian-bo(113)

Aeronautics and Astronautics

Environmental Science

Surveies

Petroleum Technology

Present Status and Prospects of Research on Fault Closure Property ZHU Hai-jun(131)

Communicational Technology

Channel Polarization and Research, Development of Polar Codes
...... LI Gui-ping, REN Hua, LIU Xiao-hang(138)

Research Notes

Geosciences

Detect Method Research of Infiltrative Breast Cancer Based Double-size Template HAN Wei,ZHAO Jun-ling, LI Rong-guo(142)

Agricultural Science

Design on High Spectral Testing Software of Camellia Oleosa Seed …… LUO Ya-hui, JIANG Ping, LIAO Dun-jun(153)

General Science and Technique

Stiffeners Location Optimization of Plate Based on Acoustic Radiation Modes ZHANG Tao, JIANG Zhe(175)

Petroleum Technology

Study on the Heterogeneity of the 1st Member of Qingshuihe Formation of Cretaceous in Hong 003 Well Block, Hongshanzui Oilfield ... ZHANG Xiu-ping, LI Zhong-quan(164) The Discussion of the High-resolution Sequence Stratigraphy Models of Yanchang Formation in Zhidan Area of Ordos Basin ZHOU Lin, CHEN Bo, ZHAO Jin-yi, MU Dan, ZHOU Kun(169)

Study on Tight Oil in Chang7 of Yanchang Formation in the Maling Province of Ordos Basin

Research of Structure and Properties of a Novel Oligomer Clean Fracturing Fluid ZHANG Yan,

Synthesis and Screening Performance on Efficient Crude Oil Demulsifier LI Jing, LI Rui-hai(191)

Instrumental Technology

Kinematics and Dynamics Analysisof Offset Slider-crank
Mechanism Based on Simulink LIU Yong,
WANG Wei-hua, LI Zhi-gang, ZHANG Long(191)
Spring Optimization Method Based on Virtual Prototype and
Fuzzy Reliability LIU Fa-ying, SU Xiu-ping,
ZHENG Wei-bei(196)

Numerical Simulation and Optimization for CAP1400 Nuclear Conventional Island Pump YUAN Xiang-yang(200)

Power Technology

The Research of Management and Health Monitoring of Wind Turbine Backup Batteries LI Lian-bing, TIAN Xiao-bin(204)

Communicational Technology

Designs of FIR Filters with Discrete Coefficients Based on Sparse Representation ······ SHI Ling-quan, JIANG Ai-min, ZHU Chang-ping, LI Xue(208)

L-bandHigh Code Rate (16 Mb/s) MSK Modulation Source Based on DDS and PLL Technology YANG Jie, YANG Guang, SUN Min, SONG Ye-xi(213)

A Symbol Timing Synchronization Algorithm for QAM Signal ... LIN Su-hong, LI Chi-sheng, JIANG Zhi-ying(217)
Diamond Search Method Based on Prediction Motion Vector LI He(220)

Computational Technology

Optimization of TCP-Vegas Protocol in High Speed MANET
...... BAI Chang-shuai, SUN Rong-ping,
ZHOU Hong-xia, CHENG Rui(226)

Attribute Reduction of Hybrid Decision System Based on Expanded Discernibility Matrix ZHAO Yan,

YANG Jing ,LIU Hai-feng,SHI Han-yang(230)

HUANG Chuan, LIU Jin-gang (234)

The Comparison between Chaos Algorithm and Music Algorithm Applied in Weak Signal Detection GAO Zhen-bin,

Chemical Industry Technology

Study on the Livable System under Framework of the Internet of Things LIU Yi, YE Qiu-dong(255)
Study of Catalyst of Treating Phenol by Catalytic Oxidation ZHU Guo-hua, LI Min, YANG Yun-long(264)

Architectural Technology

Research on Online Defect Inspection Technology of Float Glass Based on FPGA and DSP SUN Ji-zheng(264) Static Analysis of Planar Beam String Structure Based on Energy Principle DONG Ning-juan, LIU Hai-tao(272)

Traffics and Transportations

Experimental Study and Application of Fly Ash Cement Stabilized Crushed Stone Soil Base LI Hong-bo,

MAO Ming-jie, ZHENG Jian-feng, SHEN Jie(272) Laboratory Research on Performances of Warm Mix Recycled Asphalt Mixture WANG Zhen, HUANG Wen-ting,

The Calculation and Analysis of Rectangular Cross-section of Large Eccentric Compression Member WANG Jun(285) An Efficient Data Dissemination Scheme for the Roadside Parked Vehicles in VANETs

..... GE Jun, ZHOU Lian-ying(285)

LI Zhen, LI Gen, WU Hao-xiang, GUO Xue(276)