首都师范大学学报(自然科学版)

Shoudu Shifan Daxue Xuebao(Ziran Kexue Ban)

2023年4月　　第44卷　第2期

目　　次

研究论文

两类多输出k-旋转对称布尔函数的构造 ……崔　萌,王维琼,许豪杰,刘欢欢(1)

二项式系数与Lucas数四次幂的一个关系……陈小芳(8)

国内院校IPv6应用生态建设路径研究 ……孙光懿(11)

磁场控制幺正多体动力学中的纠缠扩散 ……石　沛,卢　迎,王笑涵,胡　洁,冉仕举(15)

Li_2MnO_3的高压状态方程和电输运研究……熊　伦,刘笃晋,陈光平,董洪亮,张自由(22)

飞行控制系统振荡故障监控器设计及应用 ……金学良(29)

SPE-HPLC双检测器法同时测定地表水中的苯并[a]芘和阿特拉津含量及不确定度评定 ……

…… 褚琳琳,吕晓昊,耿冬梅,张　然,孔翠羽(35)

红锥根系响应石墨烯的转录组学研究 ……

…… 白秀丽,庞　敏,刘泽慧,乔　俊,李伟佳,淮泽勋,王海雁,赵建国,陈志文(43)

巴丹吉林沙漠高大沙山短穗柽柳分布区水分特征及其水文指示意义 ……

……张进虎,牛震敏,马曙光,孙　杰,王乃昂(53)

基于Sentinel-2A影像的森林蓄积量估测 ……林爱轩,胡德勇(60)

教育动态

全国高考数学II(乙)卷与2017年版课标一致性研究……李文宣,孙小军,陈建明,杨亚强(66)

基于工程教育认证的能源高校地质工程专业人才培养模式探究与实践……孙文洁,杨文凯,李文杰(74)

基于CIPP模型的粤港澳大湾区国土空间规划课程教学实践评价与分析 ……

……张梓洋,吴大放,周晓莹,余秀桦,杨　洁(78)

述　评

路面养护用聚氨酯改性沥青材料研究进展……刘学彬,姜开森,张芹芹(86)

Journal of Capital Normal University

(Natural Science Edition)

Vol.44 No.2 Apr. 2023

Contents

Research Article

Construction of two classes of multi-output *k*-rotation symmetric Boolean functions ……CUI Meng, WANG Weiqiong, XU Haojie, LIU Huanhuan(1)

A relation between binomial coefficients and four-powers of Lucas numbers ……CHEN Xiaofang(8)

Research on the path of IPv6 application ecology construction in domestic universities ……SUN Guangyi(11)

Controlling entanglement spreading in unitary many-body dynamics by magnetic pulses …… SHI Pei, LU Ying, WANG Xiaohan, HU Jie, RAN Shiju(15)

Study of equation of state and electrical transport properties of Li_2MnO_3 at high pressure …… XIONG Lun, LIU Dujin, CHEN Guangping, DONG Hongliang, ZHANG Ziyou(22)

Design and application of flight control system oscillation fault monitor ……JIN Xueliang(29)

Simultaneous determination of Benzo[a]pyrene and Atrazine in surface water by SPE-HPLC dual detector and evaluation of uncertainty …CHU Linlin, LYU Xiaohao, GENG Dongmei, ZHANG Ran, KONG Cuiyu(35)

Influence of graphene on different pathways of *Castanopsis hystrix* roots based on transcriptome analysis…… BAI Xiuli, PANG Min, LIU Zehui, QIAO Jun, LI Weijia, HUAI Zexun, WANG Haiyan, ZHAO Jianguo, CHEN Zhiwen(43)

Water characteristics and hydrological significance of *Tamarix laxa* distribution in the Mega Dune of Badain Jaran Desert ……ZHANG Jinhu, NIU Zhenmin, MA Shuguang, SUN Jie, WANG Nai'ang(53)

Estimation of forest growing stock volume based on Sentinel-2A images……LIN Aixuan, HU Deyong(60)

Educational Trends

Research on consistency between Mathematics Test Papers Volume II (b) of national college entrance examination and mathematics curriculum standard (2017 edition) …… LI Wenxuan, SUN Xiaojun, CHEN Jianming, YANG Yaqiang(66)

Exploration and practice of talent training mode for geological engineering specialty in energy colleges and universities based on engineering education specialty certification …… SUN Wenjie, YANG Wenkai, LI Wenjie(74)

Evaluation and analysis of teaching practice of Territorial Spatial Planning course in Guangdong-Hong Kong-Macao Greater Bay Area based on CIPP model…… ZHANG Ziyang, WU Dafang, ZHOU Xiaoying, YU Xiuhua, YANG Jie(78)

Review

Research progress of polyurethane modified asphalt for pavement maintenance …… LIU Xuebin, JIANG Kaisen, ZHANG Qinqin(86)