

装甲兵工程学院学报

第 24 卷第 6 期

(总第 92 期)

2010 年 12 月(卷终)

目 次

· 专论 ·

- 装备综合保障基础理论及技术的若干问题 于永利, 康 锐 (1)

· 装备建设与保障 ·

- QFD 在装甲装备质量监控分析中的应用 陈春良, 闫海港, 梅勇飞 (9)

- 基于粗糙集理论的装备保障指挥系统效能评估指标体系约简 杜 峰, 宿云波, 刘罕杰 (13)

- 美陆军数字化部队装备保障特点及其启示 孙万国, 王学智, 杜 峰, 等 (17)

- 美军需求生成工作的工程化研究 赵定海, 多久廷, 安 理, 等 (22)

- 美军核心维修能力研究 蔡丽影, 程中华, 王立欣, 等 (27)

· 车辆工程 ·

- 工作环境对发动机本体热负荷的影响 和 穆, 王完成, 张 晶, 等 (32)

- 坦克柴油机振动检测时提高振动信号信噪比的方法 乔新勇, 张小明, 谢晓阳 (38)

- 基于 DSPACE 的高功率密度柴油机智能化冷却系统控制策略验证 王 剑, 骆清国, 桂 勇, 等 (41)

- 基于神经网络的柴油机技术状态主元信息提取方法 谢晓阳, 刘建敏, 乔新勇 (44)

· 兵器理论与技术 ·

- 某型穿甲弹弹托轻量化仿真研究 徐冰川, 邵 韶, 毛保全, 等 (47)

- 基于模糊数学的炮射导弹制导装置故障诊断 张万君, 吴晓颖, 王 新, 等 (51)

· 控制与信息技术 ·

- 一种面向目标的伪彩色图像融合算法 蒋晓瑜, 裴 阖, 汪 熙, 等 (55)

- 基于 A* 算法的虚拟士兵城市作战路径规划 荣 明, 王钦钊, 李小龙, 等 (59)

- 分析仿真联邦多次运行机制研究 徐享忠, 杨建东 (63)

- 基于状态观测器的混沌系统鲁棒同步设计 王国胜, 常天庆, 梁 冰 (67)

- 基于相关算法超声流量计的研究 黄天录, 蒋卓勤 (72)

· 装备再制造工程 ·

- 断裂复合材料层压板贴片快速修复工艺研究 李长青, 林 琳, 宋 巍, 等 (76)

- FeAlCrNbB 金属间化合物复合涂层的制备与表征 梁秀兵, 陈永雄, 张志彬, 等 (81)

- 烷烃磨削液应用于 Si₃N₄ 陶瓷磨削时的砂轮堵塞机理及改性研究 吴志远, 梁克高, 田欣利, 等 (85)

- 装备再制造费用预测估算方法 何嘉武, 姚巨坤 (89)

· 基础理论与应用 ·

- 基于椭圆曲线群上的零知识证明 韩 德, 郑素文 (92)

- 一种改进的连续域蚁群算法 赵义武, 牛庆银, 王完成, 等 (95)

- 《装甲兵工程学院学报》第 24 卷(2010 年)总目次 (I)

执行编辑: 牛燕平 英文审校: 周 倩

期刊基本参数: CN-3984/E * 1987 * A4 * 104 * zh * P * ¥ 12.00 * 1500 * 23 * 2010 - 12

JOURNAL OF ACADEMY OF ARMORED FORCE ENGINEERING

Vol. 24 No. 6

(Sum No. 92)

Dec. 2010 (The End)

CONTENTS

• Elite Contributors •

Problems about Basic Theory and Technology of Equipment Intergrated Support YU Yong-li, KANG Rui (1)

• Equipment Construction and Support •

Application of QFD in Armored Equipment Quality Monitoring Analysis

..... CHEN Chun-liang, YAN Hai-gang, MEI Yong-fei (9)

Index System Predigesting of Equipment Support Command System Effectiveness Assessment Based on Rough Set Theory

..... DU Feng, SU Yun-bo, LIU Han-jie (13)

Characteristics of US Army Digital Forces Equipment Support and Their Implications

..... SUN Wan-guo, WANG Xue-zhi, DU Feng, et al (17)

Research on the Engineering of US Army Requirement Generation Works

..... ZHAO Ding-hai, DUO Jiu-ting, AN Li, et al (22)

Research on US Army Core Maintenance Capability CAI Li-ying, CHENG Zhong-hua, WANG Li-xin, et al (27)

• Vehicle Engineering •

Working Environment Influence on the Components of the Engine Cylinder Heat Load

..... HE Mu, WANG Xian-cheng, ZHANG Jing, et al (32)

Method for Improving the Signal-noise-ratio of Vibration Signals in Condition Detection of Tank Diesel Engine

..... QIAO Xin-yong, ZHANG Xiao-ming, XIE Xiao-yang (38)

Test of the Control Strategy of High Power Engine Cooling System Based on DSPACE

..... WANG Jian, LUO Qing-guo, GUI Yong, et al (41)

Method for Main Information Extraction of Diesel Engine Technical State Based on Artificial Neural Network

..... XIE Xiao-yang, LIU Jian-min, QIAO Xin-yong (44)

• Arms Theory and Technology •

Research on Simulation of Lightening Weight for Certain Armor-Piercing Shell's Sabot

..... XU Bing-chuan, SHAO Yi, MAO Bao-quan, et al (47)

Fault Diagnosis for Guidance Device of Gun-launched Missile Based on Fuzzy Mathematics

..... ZHANG Wan-jun, WU Xiao-ying, WANG Xin, et al (51)

• Control and Information Technology •

An Object Oriented False Color Image Fusion Algorithm JIANG Xiao-yu, PEI Chuang, WANG Xi, et al (55)

Path Planning Based on A^{*} Arithmetic for Virtual Soldier in Urban Combat Simulation

..... RONG Ming, WANG Qin-zhao, LI Xiao-long, et al (59)

Research on Multi-running Mechanism for Analysis Simulation Federation XU Xiang-zhong, YANG Jian-dong (63)

Robust Synchronization Design of Chaotic Systems via State Observers

..... WANG Guo-sheng, CHANG Tian-Qing, LIANG Bing (67)

Research on Ultrasonic Flowmeter Based on Correlation Algorithm HUANG Tian-lu, JIANG Zhuo-qin (72)

• Equipment Remanufacturing Engineering •

Research on Technique of Express Repair the Fractured Composite Laminates with the Composite Patches

..... LI Chang-qing, LIN Lin, SONG Wei, et al (76)

Preparation and Characterizing of the FeAlCrNbB Intermetallic Composite Coating

..... LIANG Xiu-bing, CHEN Yong-xiong, ZHANG Zhi-bin, et al (81)

Research on Blocking Mechanisms and Chemical Modification for Alkane Grinding Fluid Applied for Si₃N₄ Ceramic Grinding

..... WU Zhi-yuan, LIANG Ke-gao, TIAN Xin-li, et al (85)

Equipment Remanufacturing Cost Forecast Evaluation Method HE Jia-wu, YAO Ju-kun (89)

• Elementary Theory and Application •

Zero-knowledge Proof Schemes Based on Elliptic Curve Groups HAN De, ZHENG Su-wen (92)

An Improved Continuous Ant Colony Algorithm ZHAO Yi-wu, NIU Qing-yin, WANG Xian-cheng, et al (95)