

目 次

安全科学技术基础学科

- 灾害视角下基于隐患因素的生态安全演变机理与系统动力学特征 王 耕 刘晓青 龚丽妍,等 3

安全人体学

- 机动车绿灯倒计时对交叉口交通安全的影响研究 钱红波 韩 镛 9

安全系统学

- 事故风险控制中的组织管理措施研究 孙爱军 刘 茂 14
基于 BN 的 FTA 在通用航空风险评价中的应用 王永刚 孙 瑶 19
独头巷道受限贴附射流特征参数对流场的影响研究 赖 军 刘祖德 赵云胜 24
化工园区企业危险量计算模型研究 汪卫国 李传贵 程慧敏,等 29
一种基于 Logistic 回归的全损飞行事故分析与预测 于洪霞 季建华 李 兴 34
地铁车站人员安全疏散仿真理论分析与应用 徐 澄 叶永峰 蒋燕锋,等 39
地质动力区划预测煤与瓦斯突出 兰天伟 苏广福 韩 军,等 46

安全工程技术科学

- 纵向通风隧道内火灾温度场分布规律研究 徐志胜 李 冬 姜学鹏,等 51
基于情景的建筑火灾风险分析方法及 CFAST 软件应用 段彦炜 黄崇福 赵思健 57
点火延迟时间对粉尘最大爆炸压力测定影响的研究 袁旌杰 伍 毅 陈 瑜,等 65
桥梁建设的安全重心——架桥机安全运行探讨 刘爱国 70
PSA 中人因失误模型化研究 戴立操 张 力 李鹏程 76
采空区渗透率分布对流场的影响 高建良 王海生 81
低温制高纯氮生产过程危险性分析及安全对策 王 瑾 86
机组资源管理与飞行不安全行为关系的研究 陈 俊 杨家忠 李 倩,等 92
基于分岔理论的人 - 机 - 环煤矿安全系统的混沌调控 姚有利 97
紧急救援系统可靠性评价指标及评价方法研究 赵光海 肖殿良 102
基于事故树分析的钻井井漏事故危险评价研究 袁 智 汪海阁 王海强,等 107

安全社会工程

- 中小企业安全生产“供求”与政府管制 梅 强 刘素霞 113
基于流程思想的矿工安全行为习惯塑造研究 李乃文 马 跃 120
煤矿企业员工行为对安全生产的影响及安全文化构建 刘文俊 周志强 李石新 125
职业健康安全管理体系运行中若干问题的探讨 段 森 王起全 严 琳 131
地铁工程建设中安全气候测度工具研究 蔡 园 邓小鹏 吴伟巍,等 135
安全工程本科专业建设研究的文献计量学分析 邹白茹 李润求 施式亮,等 140

部门安全工程理论

- 低碳农业对农产品安全的影响研究 李启平 145
模糊集重心理论在隧道瓦斯突出评价中的应用 尹利平 詹海光 151

公共安全

- 石油井下作业井喷风险预警分级模型研究 徐东超 罗 云 卢 成,等 156
非常规突发事件现场应急指挥平台设计与实现 康青春 郑儒欣 161
应对城市重大安全事件的应急资源联动研究 葛春景 王 霞 关贤军 166
基于复杂系统的民族地区非常规突发事件应急管理研究 云 健 刘勇奎 王德高,等 172

安全科技信息

- 刊 误 33
2010 年《中国安全科学学报》征订启事 64
《中国安全科学学报》主编变更 85
2010 年学术年会论文征集通知 176

CONTENTS

Basic Disciplines of Safety Science and Technology

- Ecological Security Evolution Mechanism Based on Danger Factors and Its Systematic Dynamics Characteristics in Disaster Science Perspective
WANG Geng LIU Xiao-qing GONG Li-yan et al 3

Safety Livelihood Science

- Influence of Countdown of Green Signal on Traffic Safety at Crossing
QIAN Hong-bo HAN Hao 9

Safety Systematology

- Study on Organization and Management Measures in Accident Risk Control
SUN Ai-jun LIU Mao 14
Application of FTA Based on BN to Risk Assessment of General Aviation
WANG Yong-gang SUN Yao 19
Influence of Characteristic Parameters of Restricted Attachment Jet on Flow Field in Blind Drift
ZAN Jun LIU Zu-de ZHAO Yun-sheng 24
Calculation Model for Danger Amount of Enterprise in Chemical Industrial Park
WANG Wei-guo LI Chuan-gui CHENG Hui-min et al 29
An Analysis and Forecast Model of Total Loss Flight Accidents Based on Logistic Regression Method
YU Hong-xia JI Jian-hua LI Xing 34
Theoretical Analysis and Application of Personnel Evacuation in Metro Station
XU Ying YE Yong-feng JIANG Yan-feng et al 39
Prediction of Coal and Gas Outburst Based on Geo-dynamic Division
LAN Tian-wei SU Guang-fu HAN Jun et al 46

Safety Science of Engineering and Technology

- Study on Fire Temperature Field Distribution in Longitudinal Ventilation Tunnel
DUAN Yan-wei HUANG Chong-fu ZHAO Si-jian 57
Scene-based Risk Analysis of Building Fire and Application of CFAST Software
YUAN Jing-jie WU Yi CHEN Yu et al 65
Effect of Ignition Delay Time on Measurement of Maximum Explosion Pressure of Dusts
LIU Ai-guo 70
Discussion on Safety Operation of Bridge Machine
DAI Li-cao ZHANG Li LI Peng-cheng 76
Modeling of Human Errors in Probabilistic Safety Assessment
GAO Jian-liang WANG Hai-sheng 81
Influence of Permeability Distribution on Airflow Field of Leakage in Gob
WANG Jin 86
Risk Analysis of Production Process of High-purity Nitrogen under Low Temperature and Its Safety Measures
Research on the Relationship between Crew Resource Management and Unsafe Acts of Flight Crew
CHEN Jun YANG Jia-zhong LI Qian et al 92
Chaos Regulation and Control of Man-machine-environment Coalmine System Based on Hopf Theory
YAO You-li 97
Reliability Evaluation of Emergency Rescue System on Freeway
ZHAO Guang-hai XIAO Dian-liang 102
Application of Fault Tree Analysis to Risk Assessment of Lost Circulation Hazards in Drilling
YUAN Zhi WANG Hai-ge WANG Hai-qiang et al 107

Safety Social Engineering Work

- "Supply and Demand" of Small and Medium Enterprises' Work Safety and Its Government Regulation
MEI Qiang LIU Su-xia 113
Custom Molding of Miner's Safety Behaviors Based on Process Thought
LI Nai-wen MA Yue 120
Effect of Coalmine Staff's Behaviors on Work Safety and Its Safety Culture Construction
LIU Wen-jun ZHOU Zhi-qiang LI Shi-xin 125
Discussion on Issues of Running OHSMS
DUAN Miao WANG Qi-quan YAN Lin 131
Development of Safety Climate Measuring Instrument in Metro Projects Construction
CAI Yuan DENG Xiao-peng WU Wei-wei et al 135
Bibliometric Analysis on Study of Safety Engineering Specialty Construction
ZOU Bai-ru LI Run-qiu SHI Shi-liang et al 140

Industrial Safety Engineering Theory

- Influence of Low-carbon Agriculture on the Safety of Agricultural Products
LI Qi-ping 145
Application of Barycenter Theory of Fuzzy Set to Evaluation of Tunnel Gas Outburst
YIN Li-ping ZHAN Hai-guang 151

Public Safety

- Warning Ranking for Blowout Risk of Down Hole Operation
XU Dong-chao LUO Yun LU Cheng et al 156
Design and Implementation of Non-conventional Emergency Accident Command Platform
KANG Qing-chun ZHENG Ru-xin 161
Research on the Linkage Mechanism of Emergency Resources for Urban Large-scale Emergencies Response
GE Chun-jing WANG Xia GUAN Xian-jun 166
Research on Emergency Management of Unconventional Emergencies in Ethnic Areas Based on Complex System
YUN Jian LIU Yong-kui WANG De-gao et al 172