

有色金属设计

- 中国有色金属出版物优秀期刊
- 云南省优秀科技期刊
- 中国核心期刊(遴选)数据库
- 中国期刊全文数据库收录期刊
- 中国学术规范执行优秀期刊
- 中国学术期刊综合评价数据库统计源期刊



ISSN 1004-2660

CN 53-1060/TG

# 有色金属设计

NONFERROUS METALS DESIGN



二〇二三年第五十卷第一期总第一百八十六期

# 2023 . 1

第50卷 第1期 (总第186期)

ISSN 1004-2660



9 771004 266235

云南冶金集团股份有限公司 主管

Charged by China Yunnan Metallurgical Group Co.,Ltd.

昆明有色冶金设计研究院股份公司 主办

Kunming Engineering & Research Institute of Nonferrous Metallurgy Co.,Ltd.



# 有色冶金设计

Yousejinshu Sheji

第 50 卷 第 1 期 (总第 186 期) 2023 年 3 月

## 目 次

### 矿 山

- 某石灰岩露天矿高陡边坡稳定性评价 ..... 施雄斌, 杨 泽 (1)
- 砂石矿露天开采边坡稳定性分析研究 ..... 梁 鹏, 舒国伍 (5)
- 小孔径钻机在露天台阶爆破中的应用研究 ..... 张聪龙, 黄 毅 (8)
- 浅谈尾矿库环境污染隐患及防治对策 ..... 覃风展 (12)

### 冶 化

- 云南省钨产业现状及展望 ..... 杨 坤, 高 亮, 陈浩林 (16)
- 锌氧压浸出工艺中酸平衡对湿法冶炼工艺的影响 ..... 邱勋明, 胡少玲, 王 刚 (20)
- 冶金工程机械设备安全管理及发展 ..... 郜拥军, 杨 宇, 吴 铭 (24)
- 冶金行业安全生产的现状、问题及对策研究 ..... 张金山 (28)

### 建 筑

- 智慧工地在建筑工程管理中的应用 ..... 胡建华 (32)
- 绿色建筑背景下超高层建筑结构优选 ..... 臧小静, 田 琦, 吴义龙, 等 (36)
- 基于低碳生态城市绿色建筑体系的创建 ..... 阴钰娇, 吴艳丽, 王许聪 (40)
- 基于 Revit 创建 H 型钢梁柱参数化节点 ..... 李晓宇 (44)
- 伸缩缝施工技术在市政道路工程中的应用 ..... 程向朝 (49)
- 岩土工程勘察与地基设计中的问题及处理措施 ..... 王斌斌 (53)
- 六边形孔蜂窝梁的设计与性能分析 ..... 张 皓 (58)
- 路基高边坡锚杆桩板墙支护效果监测研究 ..... 胡 涛, 蒋睿铭, 王林芳 (62)
- 某生产厂房施工方案及技术措施 ..... 柳晓恩 (65)
- 民用建筑水池液位信号远传显示及联动控制设计 ..... 徐清辉 (69)



基于土木工程建筑施工技术的创新研究 .....	郑金祖 (72)
对建筑工程逆作法施工技术的分析 .....	郑泽林 (76)
建筑工程屋面防水工程技术措施 .....	赵家钰 (79)
建筑工程土建施工中桩基础技术的应用 .....	王珊珊 (82)
市政道路中沥青混凝土路面施工技术与常见问题 .....	赵智海 (86)
露天矿山排土场截洪沟布置探讨 .....	余丹, 周高贵, 李秀, 等 (90)

## 电气自动化

STM32 微控制器固件库工程模板原理探析 .....	杨宇 (93)
电气自动化在电力系统中的应用 .....	李靖康 (97)

## 地 质

磨碾子坪重晶石矿地质特征及找矿潜力浅析 .....	吴志鹏, 贾新勇 (100)
岩浆热液矿床最佳成矿部位探讨 .....	陈青, 聂鑫 (105)
综合物探方法在滑坡地质勘探中的应用研究 .....	代璨怡 (108)
矿山地质特性对水工环地质勘测工作的影响 .....	罗艳花 (112)
雪鞍山地区找矿方向及成矿远景评价 .....	彭小龙, 曾贵川, 张祎 (116)

## 综合研究

旅游资源地学文化特色小镇建设可行性分析 .....	邱兵, 胡丽, 刘汉武 (121)
温度对微互连结构界面微裂纹扩展的影响 .....	马文婧, 王进, 吕美妮, 等 (125)
高层建筑电气监理施工质量的管理和控制 .....	王鹏 (129)
合理有效控制建筑工程造价的思路 .....	万一鸣 (133)

期刊基本参数: CN53-1060/TG \* 1974 \* q \* A4 \* 136 \* zh \* P \* ¥15.00 \* 400 \* 35 \* 2023-3

本期责任编辑: 谭永梅      校对: 王忠原    吕金梅      彩页制作: 王忠原      英文校译: 张敏



# NONFERROUS METALS DESIGN

Vol. 50 No. 1 (Sum No. 186) March, 2023

## CONTENTS

### MINE

- Stability Evaluation of High-steep Slope of an Open-pit Limestone Mine  
..... SHI Xiongbin, YANG Ze (1)
- Open-pit Mining Slope Stability Analysis of a Gravel Mine ..... LIANG Peng, SHU Guowu (5)
- Research on Application of Small Bore Drill in Open-pit Bench Blasting  
..... ZHANG Conglong, HUANG Yi (8)
- Discussion on Risk of Environmental Pollution of TSF and the Control Measures ..... TAN Fengzhan (12)

### METALLURGY

- Status and Prospect of Tungsten Industry in Yunnan Province  
..... YANG Kun, GAO Liang, CHEN Haolin (16)
- Effect of Acid Balance on Hydrometallurgical Process of Zinc Oxygen Pressure Leaching  
..... QIU Xunming, HU Shaoling, WANG Gang (20)
- Safety Management and Development of Metallurgical Engineering Machinery  
..... GAO Yongjun, Yang Yu, WU Ming (24)
- Study of Production Safety, Problems and Measures in Metallurgical Industry ..... ZHANG Jinshan (28)

### ARCHITECTURE

- Application of Smart Building Sites in Construction Project Management ..... HU Jianhua (32)
- Structural Selection of Supertall Buildings in the Background of Green Buildings  
..... ZANG Xiaojing, TIAN Qi, WU Yilong, SHI Shuaize (36)
- Establishment of Green Building System Based on Low-carbon Eco-friendly City  
..... YIN Yujiao, WU Yanli, WANG Xucong (40)
- Parametric Node Creating of H-shaped Steel Columns and Beams Based on Revit ..... LI Xiaoyu (44)
- Application of Expansion Joints Construction in Municipal Road Construction ..... CHENG Xiangchao (49)
- Problems and Measures in Geotechnical Engineering Investigation and Foundation Design  
..... WANG Binbin (53)
- Design and Performance Analysis of Honeycomb Beams ..... ZHANG Hao (58)
- Monitoring of Anchor Pile Bolting of High Embankment  
..... HU Tao, JIANG Ruiming, WANG Linfang (62)
- Construction Scheme and Technical Measures of a Production Building ..... LIU Xiao'en (65)



---

Remote Display and Coordinated Control Design of Liquid Level Signals of Civil Ponds	XU Qinghui (69)
Research on Innovation of Building Construction Technology in Civil Engineering	ZHENG Jinzu (72)
Analysis of Reverse Construction Technology in Building Work	ZHENG Zelin (76)
Roof Water-proofing Technology in Construction Projects	ZHAO Jiayu (79)
Application of Pile Footing Technology in Civil Construction of Building Projects	WANG Shanshan (82)
Construction and Common Problems of Asphalt and Concrete and Municipal Roads	ZHAO Zhihai (86)
Discussion on Flood Interception Ditch Arrangement of an Open-pit Mine's Dump	YU Dan, ZHOU Gaogui, LI Xiu, et al (90)

## ELECTRICAL ENGINEERING

Exploration into the Engineering Template of Firmware Library of MCU STM32	YANG Yu (93)
Application of Electrical Automation in Power System	LI Jingkang (97)

## GEOLOGY

Analysis of Geological Features and Prospecting Potential of A Barite Mine	WU Zhipeng, JIA Xinyong (100)
Exploration of the Best Mineralization Sites of Magma Hydrothermal Deposits	CHEN Qing, NIE Xin (105)
Application of Integrated Geophysical Prospecting in Landslide Geological Survey	DAI Canyi (108)
Influence of Mine Geological Features on Hydrological-Engineering-Environmental Geological Survey	LUO Yanhua (112)
Evaluation of Ore-prospecting Direction and Metallogenic Prospect of Xue' anshan Area	PENG XiaoLong, ZENG Guichuan, ZANG Yi (116)

## COMPREHENSIVE RESEARCH

Feasibility Study of the Building of a Town with Special Geoscience Culture	QIU Bing, HU Li, LIU Hanwu (121)
Effect of Temperature on Microcrack Growth of Micro-interconnected Structures	MA Wenjing, Wang Jin, Lv Meini (125)
Management and Control of Electrical Supervision Construction Quality of High-rise Buildings	WANG Peng (129)
Thoughts on Reasonable and Effective Control of Building Cost	WAN Yiming (133)