

ENGINEERING AND CONSTRUCTION
GONGCHENG YU JIANSHE

ISSN 1673-5781
CN 34-1296/N

工程与建设

第 34 卷 第 4 期
Vol.34 No.4

2020 年 第 4 期

中国核心期刊(遴选) 《中国学术期刊(光盘版)》全文收录期刊 《万方数据——数字化期刊群》入编期刊
《中文科技期刊数据库》来源期刊 《书生数字期刊》入编期刊 中国报刊订阅指南信息库收录期刊
《超星期刊域出版系统》全文收录期刊



ISSN 1673-5781



9 771673 578202

安徽电建一公司大楼

工程与建设

第34卷第4期

(总第130期)

2020年8月

[期刊基本参数] CN 34-1296/N * 1987 * b * A4 * 216 * zh * P * ¥20.00 * 1 000 * 75 * 2020-8

目次

❖ 研究与探索

- 建筑施工企业开展建筑垃圾资源化利用的前景分析 刘 壮, 阳 栋, 杨子汉, 李水生, 侯亚康, 习智琴(573)
- 浅析怀洪新河流域分洪与排涝 范士勇(577)
- 基于 AHP-熵权法与多级可拓的交通运输经济适应性研究 王 林, 刘冠宇(580)
- 桐城综合客运枢纽站交通影响评价 方 芳, 朱义奎(584)
- 南淝河航道(合肥新港—312国道)段桥梁通航净高专项研究 尤兴涛, 姜玉波(588)
- 给水管网健康模糊综合评价研究 张 圆(591)
- 基于 Pathfinder 紧急情况下地下商场内行人疏散的模拟与实验对比研究 王 艳(594)
- 温度对工程建设的影响与控制 赵泽淘, 张 涛, 王 辉, 苏瑞同(597)
- 地下空间暨人防工程两规融合编制之安徽探索 司惠超(599)

❖ 建筑与规划

- 灵璧县水资源布局规划优化研究 陈得阳, 陈 艳(603)
- 合肥国际空港国际小镇生态水系统构建 周 妍(607)
- 基于精确交通感知的老城交通改善规划方法研究
——以铜陵市老城区为例 袁春岭(609)
- 70年城乡住宅变迁与发展研究 齐若宁(612)
- 新时期合肥市土地储备规划编制方法与思考 司惠超(615)

❖ 工程设计

- 老路改造设计中总体交通组织与慢行过街系统优化方案简析 汪 浩, 谢 敏(619)
- 亳州市魏武大道、光明路节点立交选型研究 张德豪(622)
- 城市高架下穿高压架空线的设计与施工 岳仁辉, 樊星辰(625)
- 虚拟现实技术在房屋规划设计中的应用研究 严祥强(627)
- 建筑工程错层结构设计若干问题思考 张宗霏(629)
- 市政道路与既有高速公路交叉时“路改桥”设计浅谈 曹二星, 胡清和(631)
- BIM 技术在工业建筑三维协同设计中的应用 李仲元, 郭 跃, 孔宪扬(634)

| | |
|----------------------------------|-------------------------|
| 浅析涵洞的平立面设计 | 李静静, 周挺(636) |
| 高速公路空心板桥梁拼宽方案研究 | 李涛, 胡清和(638) |
| 武汉东四环线北湖枢纽互通立交方案设计 | 孙洪德, 易昕(641) |
| 衡重式码头在安徽内河港口中的应用 | 张海民, 王志勇, 毛成(643) |
| 三种地下车库楼盖结构的对比分析 | 张学治(646) |
| 地铁区间近距离下穿既有运营线区间隧道设计分析 | 王根, 王林(650) |
| 淮河航道临淮岗至洪山头段跨河桥梁通航净空尺度标准研究 | 孙曙光(653) |
| 浅析月潭水库发电引水建筑物选型设计比选 | 胡伽(655) |
| 大跨径混合梁独塔斜拉桥设计 | 施文杰, 梁长海, 颜心园(657) |
| 某大型设备基础过火后的拆除修复设计 | 潘青松, 李志强, 唐云鹏, 杨洪瑞(660) |
| 基于美国规范的印尼组合梁桥设计验算浅析 | 殷亮, 胡小康(663) |
| 金牛洞古采矿遗址水患病害及防治技术研究 | 余敏, 赵建, 李冬冬(667) |
| 某板桩码头方案研究与设计 | 金建, 王二宝(671) |

❖ 试验与检测

| | |
|---------------------------------|-------------------|
| 下承式系杆拱桥吊杆索力测试研究 | 魏明亮, 张宝(674) |
| 超大吨位灌注桩锚桩反力加补偿荷载静载检测设计及应用 | 李峰, 李天宝, 黄安虎(676) |
| 公路隧道健康状态综合检测技术的分析 | 彭传甫(679) |
| 某带挂梁的V形墩刚构拱组合桥梁静载试验研究 | 张凡龙(681) |
| 钢筋混凝土桥梁遭火灾后的检测与评定 | 郑文通, 刘骁哲, 张涛(684) |

❖ 地基与基础

| | |
|------------------------------|--------------|
| 高密度电阻率法探测某基岩滑坡应用及其特征分析 | 杨杰, 李玥(686) |
| 中小桥明挖扩大基础软弱下卧层地基承载力验算 | 宋佳(689) |
| 基于有限元强度折减法的临江岸坡稳定性分析 | 董世民, 黄铭(692) |
| 软土地基挡土墙变形影响分析 | 夏高响, 余然(695) |

❖ 勘察与测量

| | |
|-------------------------------|-------------|
| 长江沿岸铜陵段工程地质条件与工程建设适宜性评价 | 余敏, 赵建(697) |
| 地质勘察报告三维表现方式及应用研究 | 姜雪亮(700) |
| 某水电站坝址的工程地质条件浅析 | 朱明辉(704) |

❖ 抗震研究

| | |
|-----------------------------|---------------|
| 新型预制装配式桥墩地震破坏形态研究 | 韩磊, 汪志甜(706) |
| 基于拉索减震支座的钢板组合梁桥抗震性能研究 | 窦维禹, 吴平平(708) |

❖ 建造技术

- 再生混凝土技术在装配式建筑中的研究与应用..... 郭鲲鹏, 李群, 刘剑锋(710)
- 湖底隧道组合式生态围堰施工技术..... 胡先宽(712)
- 烟台港西港区专用铁路工程油品装卸站装车工艺简述..... 尚玉涛, 刘鑫(715)
- 既存建筑立面亮化改造的几点认识..... 程虎(718)
- 跨在建铁路深路堑大跨箱梁多机协同吊装技术..... 石运庆(720)
- 南京东路 179 号街坊美伦南楼外墙保留方案设计实践..... 吴兵(724)
- 地质雷达技术在公路建设中的应用..... 李剑, 李冬冬, 马鑫, 汤鑫(728)
- 基于“BIM+3D 打印技术”的灾后重建模式..... 袁礼正, 张迎澳, 陈炜, 张煜辉, 施宇珂, 李雪峰(730)
- 敏感区域大型溶洞群桩基础施工处理技术..... 胡智敏(733)
- 轻质泡沫混凝土换填地铁车站结构分析..... 蒋爱文, 张呈祥, 尹俊(735)
- 城市市政设施地下化建设适宜性探讨..... 刘世光(739)
- 山区高速公路短隧道与深挖边坡方案比选研究..... 林伟弟(741)

❖ 建筑材料

- 气泡混合轻质土路用性能试验研究..... 岳新凯, 姚尚, 殷世刚(745)
- 大体积混凝土锚塞体水化热温度监控与分析
..... 李之达, 黄勇哲, 兰晴朋, 龚磊, 邓业逵, 罗实(747)
- 沥青路面网裂表面处治材料应用与研究..... 陈正岳(750)
- 饱和掺砾砂土的动强度试验研究..... 张志昊(752)

❖ 建筑节能

- 公共建筑项目中暖通空调专业的绿色设计..... 杨振(755)
- 强磁场中心冷源系统节能改造设计..... 高峰, 黄世山, 何官送(757)

❖ 工程管理

- 浅谈 G25 富阳至 G60 诸暨高速联络线设计施工总承包项目亮点..... 高文号, 赵勇(759)
- 浅议建筑工程施工合同风险的防范..... 徐欢(761)
- 推进团体标准的认识与思考..... 王章虎(764)
- 基于粒子群算法的桥梁多目标维护决策优化..... 程健, 黎恩华(767)
- 如何做好安全监理工作..... 汪杰(770)
- 智慧高速信息化系统构成浅析..... 蔡权慧(772)
- 水利泵站机电设备运行管理若干问题思考..... 刘瑞红(775)
- 装配式建筑构件生产质量控制的数字化管理..... 郭鲲鹏, 李群, 刘剑锋(777)
- 市政道路施工工序资料填写及其管理探析..... 陶涛(779)

投稿须知..... (579)

敬告作者..... (637)

版权声明..... (649)

CONTENTS

Research and Discussion

- Analysis on the Prospects of Construction Enterprise Carrying out Resource Utilization of the Construction Waste
..... LIU Zhuang, YANG Dong, YANG Zi-han, LI Shui-sheng, HOU Ya-kang, XI Zhi-qin(573)
- Analysis of flood diversion and drainage in huaihongxin River Basin FAN Shi-yong(577)
- Research on the Adaptability of Transportation Economy Based on AHP-Entropy Method and Multi-level Extension Evaluation
Model WANG Lin, LIU Guan-yu(580)
- The traffic impact assessment of Tongcheng Comprehensive passenger hub station FANG Fang, ZHU Yi-kui(584)
..... YOU Xing-tao, JIANG Yu-bo(588)
- Analysis on the Prospects of Construction Enterprise Carrying out Resource Utilization of the Construction Waste
..... ZHANG Yuan(591)
- Simulation and Experimental Study on Pedestrian Evacuation in Underground Shopping Mall Based on Pathfinder
..... WANG Yan(594)
- Influence and Control of Temperature on Engineering Construction
..... ZHAO Ze-tao, ZHANG Tao, WANG Hui, SU Rui-tong(597)
- Research on the integration of underground space and civil air defense engineering in Anhui Province SI Hui-chao(599)

Building and Planning

- Study on the Optimization of Water resource layout planning in Lingbi County CHEN De-yang, CHEN Yan(603)
- Construction of ecological water system in Hefei International Airport International Town ZHOU Yan(607)
- Research on Transportation Improvement Planning Methods for Old City Area Based on Accurate Traffic Perception
——Taking the Old City Area of Tongling City as an Example YUAN Chun-ling(609)
- Research on the Changes and Development of Urban and Rural Houses in 70 Years After the Founding of the People's Republic of
China QI Ruo-ning(612)
- The method and thinking of land reserve planning in Hefei in the new era SI Hui-chao(615)

Engineering Design

- A Brief analysis of the overall traffic organization and the Optimization scheme of slow crossing system in the old road reconstruction design
..... WANG Hao, XIE Min(619)
- Study on the type selection of node interchange of Weiwu Avenue and Guangming Road in Bozhou City
..... ZHANG De-hao(622)
- Design and construction of urban viaduct under high voltage YUE Ren-hui, FAN Xing-chen(625)
- Application of virtual reality technology in housing planning and design YAN Xiang-qiang(627)
- Some problems of staggered floor structure design in building engineering ZHANG Zong-fei(629)
- Discussion on the design of "road to bridge" when municipal road and existing expressway cross
..... CAO Er-xing, HU Qing-he(631)
- Application of BIM in 3D Collaborative Design of Industrial Buildings ... LI Zhong-yuan, GUO Yue, KONG Xian-yang(634)
- Brief Analysis of the Plane and Elevation of the Culvert LI Jing-Jing, ZHOU Ting(636)

- Reserch on widening method of hollow slab bridge of expressway LI Tao , HU Qing-he(638)
- The Solution Design for Beihu Hub interchange on the fourth annular urban road of Wuhan SUN Hong-de , YI Xin(641)
- Application of counterweight wharf in the anhui river in port engineering
..... ZHANG Hai-ming , WANG Zhi-yong , MAO Cheng(643)
- Comparison and analysis of three underground garage floor structures ZHANG Xue-zhi(646)
- Design and analysis of subway tunnel passing through existing operation line in short distance
..... WANG Gen , WANG Lin(650)
- Study on the navigation clearance standard of bridge over Huaihe River from Linhuaigang to Hongshantou SUN Shuguang
..... SUN Shu-guang(653)
- Analysis on the selection , design and comparison of power generation and diversion structures of Yuetan reservoir
..... HU Jia(655)
- Design of a long-span single tower cable-stayed bridge with hybrid girder
..... SHI Wen-jie , LIANG Chang-hai , YAN Xin-yuan(657)
- Demolition and Repair Design of a Large Equipment Foundation after Fire
..... PAN Qing-song , LI Zhi-qiang , TANG Yun-peng , YANG Hong-rui(660)
- Analysis on Design Calculation of Indonesian Steel-concrete Composite Bridges Based on AASHTO
..... YIN Liang , HU Xiao-kang(663)
- Research on flood diseases and control techniques in ancient mining site of Jinniu cave
..... YU Min , ZHAO Jian , LI Dong-dong(667)
- Study and Design of a Sheet-pile wharf JIN Jian , WANG Er-bao(671)

Test and Inspection

- Test and Research on suspender cable force of through tied arch bridge WEI Ming-liang , ZHANG Bao (674)
- Design and application of static load detection for super large tonnage cast-in-place pile
..... LI Feng , LI Tian-bao , HUANG An-hu(676)
- English TitleAnalysis of comprehensive detection technology of highway tunnel health state PENG Chuan-pu(679)
- Experimental Study on Static and Dynamic Loads of a V-Pier Rigid Frame Arch Composite Bridge with Hanging Beams
..... ZHANG Fan-long(681)
- Detection and evaluation of reinforced concrete bridges after a fire ... ZHENG Wen-tong , LIU Xiao-zhe , ZHANG Tao(684)

Foundation and Basement

- Application of high density resistivity method to detect a bedrock landslide and its characteristics analysis
..... YANG Jie , LI Yue(686)
- Checking calculation of bearing capacity of soft substratum of open cut enlarged foundation of medium and small bridges
..... SONG Jia(689)
- Stability analysis of riverside slope based on finite element strength reduction method ... DONG Shi-min , HUANG Ming(692)
- Analysis of the Deformation Influence about the Retaining Wall on Soft Soil Foundation XIA Gao-xiang , SHE Ran(695)

Reconnaissance and Survey

- Evaluation of engineering geological conditions and engineering construction suitability of tongling section along the Yangtze river
..... YU Min , ZHAO Jian(697)
- Research on 3D representation and application of geological exploration report JIANG Xue-liang(700)
- Preliminary analysis of the engineering geological conditionsof the dam site of a Hydropower Station ZHU Ming-hui(704)

Research on Earthquake Resistance

- Study on seismic failure mode of new prefabricated pier HAN Lei , WANG Zhi-tian(706)
- Study on seismic performance of steel plate composite beam bridge based on cable damping support
..... DOU Wei-yu , WU Ping-ping(708)

Construction Technology

- Research and application of recycled concrete technology in prefabricated building
..... GUO Kun-peng, LI Qun, LIU Jian-feng(710)
- Construction technology of combined ecological Cofferdam for lake bottom tunnel HU Xian-kuan(712)
- Yantai port west port special railway engineering oil loading and unloading station Brief description of loading process
..... SHAO Yu-tao, LIU Xin(715)
- Some understandings of existing building facade lighting transformation CHENG Hu(718)
- The technology of multi-machine co-hoisting of large span box girder in deep cutting of railway under construction
..... SHI Yun-qing(720)
- Scheme design of retention outer wall of Meilun south building at No .179 East Nanjing Road WU Bing(724)
- Application of GPR technology in highway construction LI Jian, LI Dong-dong, MA Xin, TANG Xin(728)
- Post-disaster reconstruction model based on BIM+3D printing technology
..... YUN Li-zheng, ZHANG Ying-ao, CHEN Wei, ZHANG Yu-hui, SHI Yu-ke, LI Xue-feng(730)
- Construction treatment technology of large karst cave pile foundation in sensitive area HU Zhi-min(733)
- Structural Analysis of Lightweight Foamed Concrete Replacement Subway Station
..... JIANG Ai-wen, ZHANG Cheng-xiang, Yin Jun(735)
- Discussion On The Suitability of Municipal Facilities Underground Construction LIU Shi-guang(739)
- Comparative study of Short tunnel and Deep cutting in mountainous expressway LIN Wei-di(741)

Building Material

- Study on The Performance Of Foamed Mixture Light-Weight soil Used As Roadbed Filler
..... YUE Xin-kai, YAO Shang, YIN Shi-gang(745)
- Monitoring and analysis of hydration heat temperature of mass concrete anchor plug
..... LI Zhi-da, HUANG Yong-zhe, LAN Qing-peng, GONG Lei, DENG Ye-kui, LUO Shi(747)
- Application and research of surface treatment materials for asphalt pavement network cracks CHEN Zheng-chan(750)
- Experimental study on dynamic strength test of saturated sand mixed gravel ZHANG Zhi-hao (752)

Building Energy Conservation

- Green design of HVAC in public building project YANG Zhen(755)
- Energy saving design of central cold source system with strong magnetic field
..... GAO Feng, HUANG Shi-shan, HE Guan-song(757)

Engineering Management

- Discussion on the highlights of G25 Fuyang to G60 Zhuji high speed connecting line design and construction EPC project
..... GAO Wen-hao, ZHAO Yong(759)
- On the prevention of construction contract risk XU Huan(761)
- Thinking and Understanding of the Group Standards WANG Zhang-hu(764)
- Multi objective maintenance decision optimization of bridge based on particle swarm optimization
..... CHENG Jian, LI En-hua(767)
- How to do safety supervision well WANG Jie(770)
- Analysis on the constitution of intelligent high-speed information system CAI Quan-hui(772)
- Some problems in the operation and management of electromechanical equipment in water conservancy pumping station
..... LIU Rui-hong(775)
- Digital management of production quality control of prefabricated building components
..... GUO Kun-peng, LI Qun, LIU Jian-feng(777)
- Analysis on filling in and management of municipal road construction process data TAO Tao(779)