

# 筑路机械与施工机械化

2020年9月

Zhulu Jixie yu Shigong Jixehua

第37卷 第9期

## 目 次

### • 设计与试验 •

- 双酚A型不饱和聚酯树脂改性沥青混合料性能研究 ..... 潘军利,李德文,黎碧波(1)  
改良千枚岩的无侧限抗压强度预测模型 ..... 王鹏,邱洲(6)  
振动击实成型水泥稳定破碎砾石力学特性研究 ..... 朱建华,彭辉(10)  
不同掺量胶粉复合改性沥青玻璃纤维防水黏结层力学性能研究 ..... 张永利,马华宝(15)

### • 施工技术与应用 •

- 软硬不均地层运营隧道病害成因分析及处治对策 ..... 蔺虎平,缑婷,刘燕鹏,李祥(20)  
西拉沐伦河特大桥主梁结构整体计算及局部仿真分析 ..... 杨大余,李轲,貞宝锋(25)  
公路隧道上覆溶洞水压影响隧道稳定性的数值模拟研究 ..... 田荣生,张士朝(30)  
超大直径覆塑热镀锌钢波纹管通道涵施工技术 ..... 黄明溪,李自坤,李连生,高翔(35)

### • 施工机械与管理 •

- 路肩培土边坡整修机结构设计研究 ..... 周合宽,史鹏飞,李明杰,聂卫林,吴俊江(40)  
国产泡沫沥青冷再生设备在普通公路中的应用 ..... 郭小宏,王文焱,黄维蓉,王金桥,赵劲松,陈言国(45)  
轻型强夯机作用下的桥涵稳定性分析 ..... 马鑫,张戈,李长进,张洪亮,杨云杰(50)  
微波辅助加热填料在沥青路面修补中的应用 ..... 毕连居,朱浩然,焦生杰,于明明,张杨(55)  
沥青搅拌站燃烧器燃烧效率的研究 ..... 刘战猛,赵崇(59)

### • 质量检测与控制 •

- 特长公路隧道互补与竖井送排组合通风污染物分布规律 ..... 张双苗(66)  
0#块段销接托架与焊接托架施工工艺对比 ..... 马龙,罗勇(72)  
高性能薄层罩面在沥青路面预养护中的应用 ..... 曹建新,张京峰,任民(76)

## CONTENTS

### • Design and Test •

- Research on Performance of Bisphenol A Type Unsaturated Polyester Resin Modified Asphalt Mixture ..... PAN Jun-li, LI De-wen, LI Bi-bo(1)  
Prediction Model of Unconfined Compressive Strength of Modified Phyllite ..... WANG Peng, QIU Zhou(6)  
Study on Mechanical Properties of Cement Stabilized Crushed Gravel Produced Using Vibrating Compaction Method ..... ZHU Jian-hua, PENG Hui(10)  
Study on Mechanical Properties of Waterproof Adhesive Layer of Different Content Rubberized Asphalt and Glass Fiber ..... ZHANG Yong-li, MA Hua-bao(15)

### • Construction Technology and Application •

- Cause Analysis and Treatment of Tunnel Diseases in Soft and Hard Strata ..... LIN Hu-ping, GOU Ting, LIU Yan-peng, LI-Xiang(20)  
Structure Calculation and Partial Simulation Analysis on Xilamulun River Super Large Bridge ..... YANG Da-yu, LI Ke, YUN Bao-feng(25)  
Numerical Simulation Study on Influence of Water Pressure in Overlying Karst Cave on Tunnel Stability ..... TIAN Rong-sheng, ZHANG Shi-chao(30)  
Construction Technology of Super Large Diameter Plastic Coated Hot Galvanized Steel Corrugated Pipe Channel Culvert ..... HUANG Ming-xi, LI Zi-kun, LI Lian-sheng, GAO Xiang(35)

### • Construction Machinery and Management •

- Research on Structure Design of Shoulder Soil-cultivating and Slope Dressing Machine ..... ZHOU He-kuan, SHI Peng-fei, LI Ming-jie, NIE Wei-lin, WU Jun-jiang(40)  
Application of Domestic Foam Asphalt Cold Recycling Equipment in Ordinary Highway ..... GUO Xiao-hong, WANG Wen-wen, HUANG Wei-rong, WANG Jin-qiao, ZHAO Jin-song, CHEN Yan-guo(45)  
Stability Analysis of Abutment and Culvert Under Action of Light Tamping Machine ..... MA Xin, ZHANG Ge, LI Chang-jin, ZHANG Hong-liang, YANG Yun-jie(50)  
Application of Microwave-assisted Heating Filler in Asphalt Pavement Repair ..... BI Lian-ju, ZHU Hao-ran, JIAO Sheng-jie, YU Ming-ming, ZHANG Yang(55)  
Study on Combustion Efficiency of Burner in Asphalt Mixing Plant ..... LIU Zhan-meng, ZHAO Chong(59)

### • Quality Measurement and Control •

- Pollutant Distribution Law of Combined Ventilation of Complementary and Vertical Shaft in Extra Long Highway Tunnel ..... ZHANG Shuang-zhuo(66)  
Comparison of Construction Technology Between Pin Joint Bracket and Welded Bracket of 0<sup>#</sup> Block ..... MA Long, LUO Yong(72)  
Application of High Performance Thin Overlay in Preventive Maintenance of Asphalt Pavement ..... CAO Jian-xin, ZHANG Jing-feng, REN Min(76)