# 岩石力学与工程学报

### 2005年5月15日 第24卷 第10期(总第149期)

#### 目 次

岩石力学离散单元计算方法中的若干问题探讨	
地震载荷作用下的节理岩体破裂模型	
基于直接法节理网络模拟的三维离散单元法计算	王 涛 盛 谦 陈晓玲 (1649)
地震和降雨诱发的两个流动性滑坡的流动化机制及运动模拟(英文)—	
工作应力状态下岩体变形模量的研究	
含瓦斯岩破裂过程流固耦合数值模拟	徐 涛 唐春安 宋 力等 (1667)
含吸附煤层气煤的有效应力分析	
多井条件下煤层气不定常渗流问题的数值研究	
抽注水引起含水层水平径向运动的位移方程	
长江下游桥梁工程地基土体渗透特性研究	
隧道开挖的围岩损伤扰动带分析	吉小明 (1697)
地铁隧道施工拱顶下沉值的分析与预测	
低地应力区地下洞室围岩变形破坏有限元数值模拟研究	
轻轨地下车站主体结构设计与施工研究	
隧道中用陆地声纳法在开挖的岩面式衬砌表面测围岩松驰带深度 …	
圆梁山隧道毛坝向斜高水压富水区注浆施工技术	,
岩样单轴压缩塑性变形及断裂能研究	
双轴拉压混凝土在冻融循环后的力学性能及破坏准则	
基于小波分析的隧道衬砌结构动力响应规律研究	
基于解耦子波和优化神经网络的大坝变形预测	
地面水对黄土地区桥梁桩基承载力影响试验研究	
单一连续墙的平面非线性有限元分析	,
考虑土体侧胀性的路堤沉降计算探讨	
水泥土的环境侵蚀效应与破裂过程分析	
膨胀土与改性膨胀土及动力特性试验研究	
尾砂分形级配与胶结强度的知识库研究	刘志祥 李夕兵 (1789)
研究进展与工程实录	
光测方法在岩石力学实验观测中的应用述评	
数控水刀在石材切割中的应用研究	
梁板式筏基与地基共同作用的弹性分析	,
粉煤砂加固处理吹填泥浆的试验研究	
讨 论	
对"土坡稳定的有限元塑性极限分析上限法研究"的讨论	,
对"土坡稳定的有限元塑性极限分析上限法研究"的讨论的答复。	王均星 王汉辉 (1819)
动态	
本学报 2005 年第 1~5 期被 EI 收录论文题录 ····································	
下期内容预告	(1678)

责任编辑:饶杨安

## **Chinese Journal of Rock Mechanics and Engineering**

 $Vol.\ 24$  , No. 10 (Total No. 149) May , 2005

#### **CONTENTS**

Insight into Some Aspects of Discrete Element Numerical Methods for Rock Mass	
	(1639)
Fracture Model of Jointed Rock Mass Subjected to Seismic Loading ZHANG Zhen-nan , GE Xiu-run	(1645)
3D Discrete Element Method Based on Direct Method of Joint Network Simulation	
	(1649)
Fluidization Mechanisms and Motion Simulation on Flowslides Triggered by Earthquake and Rainfall WANG Fa-wu	(1654)
Study on Deformation Modulus of Rock Mass in Working Stress State	
YU Zhen-ping , LI Tie-han	(1662)
Numerical Simulation of Coupled Gas Flow in Failure Process of Gassy Coal-rock	
XU Tao , TANG Chun-an , SONG Li , et al	(1667)
Analysis of Effective Stress in Adsorbed Methane-coal System	(1674)
Numerical Study on Coalbed Methane Transient Seepage Flow with Multi-wells	, ,
LIU Yue-wu , ZHANG Da-wei , CHEN Hui-xin , et al	(1679)
Equation for Horizontal-radial Displacement of Aquifer Caused by Water-pumping/Injection ········· RAN Xing-long, XIA Bin	(1687)
Study on Permeability of Foundation Soil of Bridges on Lower Reaches of Yangtze River	(1007)
LI Xiao-yan , DONG Xue-wu , CHEN Zhi-jian , et al	(1692)
	(1092)
Study on Mechanical and Hydraulic Behavior of Tunnel Surrounding Rock Masses in Excavation-disturbed Zone	(1.607)
JI Xiao-ming	(1697)
Analysis and Prediction of Vault Crown Settlement in Metro Tunneling at Shallow Depth ZHANG Ding-li , HUANG Jun	(1703)
Simulation of Deformation and Failure of Surrounding Rock Masses of Underground Cavern in Low Ground Stress Regions	
with Finite Element Method	(1715)
Detecting Depth of Relaxation Zone of Tunnel Surrounding Rock by Using Landsonar on Surface of Rock or Lining-	
ZHONG Shi-hang , CAO Da-ming	(1722)
Grouting Technique for High-pressure and Water-rich Area in Maoba Syncline at Yuanliangshan Tunnel	
LIU Zhao-wei , ZHANG Ding-li , ZHANG Min-qing	(1728)
Analysis of Plastic Deformation and Fracture Energy of Rock Specimen in Uniaxial Compression	(1735)
Mechanical Property and Failure Criterion of Concrete under Biaxial Tension and Compression after Freeze-thaw Cycling	
——————————————————————————————————————	(1740)
Research on Dynamic Response Laws of Lining Structure of Tunnels Based on Wavelet Analysis	
WANG Xiang-qiu, YANG Lin-de, GAO Wen-hua, et al	(1746)
New Prediction Model for Dam Deformation Based on Decoupled Wavelet and Optimal Neural Networks	, ,
CAO Mao-sen , REN Qing-wen , MAO Wei-bing	(1751)
Experimental Study on Effect of Surface Water on Bearing Capacity of Pile Foundation in Loess Area	(-,)
FENG Zhong-ju , XIE Yong-li , ZHANG Hong-guang , et al	(1758)
Two-dimensional Nonlinear Finite Element Analysis of Single Diaphragm WallWAN Wen, CAO Ping, GAO Wen-hua	(1766)
Discussion on Settlement Calculation of Embankment Considering Lateral Dilation Behavior of Soils	(1700)
WANG Zhi-liang, LI Yong-chi, YIN Zong-ze	(1772)
	(1772)
Fracturing Behaviors of Cemented Soil under Environmental Erosion	(1778)
Experimental Study on Dynamic Properties of Expansive Soil and Improved Expansive Soil	(1783)
Study on Fractal Gradation of Tailings and Knowledge Bank of Its Cementing Strength	(1789)
Review on Application of Optical Measurement Methods to Experimental Inspection of Rock Mechanics	
Application of Digital Control Water Cutter to Cutting of Natural Rock Materials	-
	(1800)
Elastic Analysis of Interaction between Stiffened Raft and SubsoilCAI Jian , HE Chun-bao , SHEN Jian-hua , et al	(1804)
Experimental Study on Consolidation of Dredger Fill Slurry with Fly AshXIE Hai-lan , WANG Qing	(1811)
Discussion on "Stability Analysis of Soil Slope by Finite Element Method with Palstic Limit Upper Bound"	
XIE Jun , YU Hai-yong	(1817)
Reply to Discussion on "Stability Analysis of Soil Slope by Finite Element Method with Plastic Limit Upper Bound"	
· · · · · · · · · · · · · · · · · · ·	(1819)