

# 中國土木水利工程學刊

中華民國九十二年六月

第十五卷 第二期

## 目 錄

### 論 文

理論率定曲線應用在天然河段之評估探討 .....	吳瑞濱	楊錦釧	顏本琦	241	
整合型多座水庫與攔河堰系統分析模式之建立 .....	林松青	吳瑞賢	王茂興	韋家振	253
以非干擾性技術量測異重流濃度剖面與速度向量之方法探討 .....	許少華	劉子明	267		
未飽和土壤層多成份氣體傳輸之二維動態模擬 .....	馮秋霞	陳欣偉	277		
K <sub>0</sub> 條件下顆粒集合體之組構更迭與 K <sub>0</sub> 相關性探討 .....	劉智超	潘以文	289		
離散拉格朗日法於群樁基礎低價化設計之應用 .....	莊德興	吳朗益	303		
現地水力回填煤灰之液化強度特性 .....	黃俊鴻	林資凱	楊志文	315	
水力填築板狀砂土顆粒長軸分布異向性之探討 .....	鄭清江	327			
半主動摩擦消能技術於結構減震之應用 .....	盧煉元	林錦隆	王智弘	335	
應用雙向圍束之鋼骨鋼筋高強度混凝土柱承載行為 .....	許協隆	王慶雲	347		
混凝土之雙荷載函數彈塑性分析模型 .....	王國昌	王仲宇	丁承先	359	
道路交通資訊對計程車服務績效之影響 .....	周榮昌	陳大中	翁美娟	371	
營建工程專案資源特性之強弱勢評估 .....	王建武	王明德	張家祝	381	

### 技術短文

混凝土材料組成與波傳速度關係之研究 .....	賴朝鵬	顏聰	林宜清	395
-------------------------	-----	----	-----	-----

虛擬實境遠端監控抽水站 .....	許毅然	蔡馥聲	405
順向坡穩定性影響因子之探討 .....	陳志南	郭俊何	411
泡沫鋁合金之微觀結構特性 .....	黃忠信	陳婷容	419
基礎於二維空間關係之都市地區路邊可停車空間評估 .....	洪榮宏	吳毓芬	427

# **Journal of the Chinese Institute of Civil and Hydraulic Engineering**

**June, 2003**

**Vol. 15, No. 2**

## **CONTENTS**

### **Papers**

Evaluation of Theoretical Rating Curve for Natural Channel .....	Reuy-Bean Wu, Jinn-Chuang Yang, Ben Chie Yen	241
A Window-Based Integrated Systems Analysis Model for Multireservoir and Barrage Systems .....	Song-Ching Lin, Ray-Shyan Wu, Mou-Hsing Wang, Chia-Chen Wei	253
Non-Interference Measurement Techniques for Concentration Profiles and Velocity Vectors in Density Currents .....	Shaohua Marko Hsu, Tzu-Ming Liu	267
Dynamic Simulation of Two-Dimensional Multicomponent Vapor Transport in Unsaturated Soils .....	Chiu-Shia Fen, Shin-Wei Chen	277
Fabric Evolution and $K_0$ for Granular Assembly .....	Jyh-Chau Liou, Yii-Wen Pan	289
Discrete Lagrangian Method for Minimum Cost Design of Raft-Pile Foundations .....	Der-Shin Juang, Larn-Yi Wu	303
Undrained Cyclic Strength of a Hydraulic Coal Ash .....	Jin-Hung Hwang, Tze-Kia Lin, Chin-Wen Yang	315
Study on Fabric of the Simulated Hydraulic Filled Sand .....	Ching-Jiang Jeng	327
Seismic Structural Control Using Semi-Active Friction Devices .....	Lyan-Ywan Lu, Ging-Long Lin, Jyh-Hung Wang	335
Seismic Performance of High Strength Steel Reinforced Concrete Columns with Bi-Lateral Confinement .....	Hsieh-Lung Hsu, Chin-Uii Wang	347
A Dual Loading Functions Model for the Elastic-Plastic Behavior of Concrete .....	Kuo-Chang Wang, Chung-Yue Wang, Edward C. Ting	359
The Effects of Traffic Information on Taxi Service Performance .....	Rong-Chang Jou, Dai-Chung Chen, Mei-Chuan Weng	371
Assessment on Strength and Weakness of Resource Characteristics for Construction Projects .....	Jiann-Wuu Wang, Ming-Teh Wang, Chia-Juch Chang	381

### **Technical Short Papers**

Effects of the Composition of Concrete on the Ultrasonic Pulse Velocity in Concrete .....	Chao-Peng Lai, Tsong Yen, Yiching Lin	395
Remote Control of Pumping Station in Virtual Reality .....	Yih-Ran Sheu, Fu-Sheng Tsai	405
Studies of the Influential Factors on the Stability of Dip Slope .....	Chee-Nan Chen, Jun-Her Guo	411
Microstructural Characteristics of Aluminum Alloy Foams .....	Jong-Shin Huang, Ting-Jung Chen	419
Available Roadside Parking Space Analysis in Urban Area: a 2-D Spatial Relation Perspective .....	Jung-Hong Hong, Yu-Fen Wu	427