

中國土木水利工程學刊

中華民國九十三年三月

第十六卷 第一期

目 錄

論 文

台北沉泥質黏土之電子式水壓錐試驗	蘇世豐 龔東慶	1
纜索支撐橋梁氣彈參數	陳振華 楊永斌	11
田區硬盤之形成及其對地下水補注與回歸水之影響	簡傳彬 吳瑞賢	23
非凝聚性土石壩滲流破壞之試驗研究	廖偉民 唐憲德	33
數值分析粒狀材料顆粒邊界接觸行為	林世洪 張大鵬	41
土石流地聲特性之實驗研究 黃清哲 謝正倫 鄭友誠 李孝元	許世盛 蔡政謾	53
軸向荷重樁之正規化荷重—沉陷曲線	熊雲嶧 洪世益	65
應用 PIV 與 FLDV 作步量測技術於圓柱近域尾流平均速度場特性之探討	林 呈 謝世圳 高明哲 徐華勇	73
列車行駛於序列高架橋梁之穩態行為、乘坐舒適度及橋梁衝擊反應	吳演聲 陳貞伶	93
連續壁構溝崩陷之研究	蔡錦松 葉奕昌	105
未設測站流量推估—利用類神經網路建構模式	陳祖憲 陳柏蒼	115
織維財片補強鋼筋混凝土梁之剪力暨撓曲強度評估研究	游新旺 黃世達	125
斜坡堆積圓球及圓柱顆粒受水平振動時之傾角分析	唐憲德 張藝耀	137
水庫規範研訂自動化之解析模擬與優化混合模式	林松青 吳瑞賢	147
以質點運動類比法求鑽索叫階螺旋線之曲率分量	閻壽義 陳君璽	159
電弧爐煉鋼還原渣應用於高性能混凝土之特性研究	江奇成 湘潤源 林庭亦 黃兆龍	167

技術短文

雜物含量、級配對剩餘土石方工程性質之影響	楊朝平 王明德	179
可降低垃圾焚化飛灰固化熱之鉛離子安定劑	黃武寧	187

Journal of the Chinese Institute of Civil and Hydraulic Engineering

March, 2004

Vol. 16, No. 1

CONTENTS

Papers

Piezocene Test Results of Taipei Silty Clay	S.F. Su, T.C. Kung	1
Aeroelastic Parameters for Cable-Supported Bridges	Chern-Hwa Chen, Yeong-Bin Yang	11
The Formation of Hardpan and Its Effects on Groundwater Recharge and Return Flow for Paddy Fields	Chuan-Pin Chien, Ray-Shyan Wu	23
Seepage Failure Study of Experimental Cohesionless Dams	Wei-Min Liao, Hsien-Ter Chou	33
The Numerical Analysis of Contact Behavior on Boundary of Particles for Granular Materials	Shi-Hong Lin, Ta-Peng Chang, Huang-Chin Lin	41
Experimental Study on the Underground Sound Generated by the Debris Flows	C.J. Huang, C.L. Hsieh, Y.C. Cheng, S.Y. Yin, H.H. Hsu, M.H. Tsai	53
The Normalized Load-Settlement Curve of Axially Loaded Pile	Yun-mei Hsiung, Shih-yi Hung	65
Study on Mean Velocity Characteristics of Near-Wake Flow Behind a Circular Cylinder: Application of Simultaneous Measurement Technique by PIV and FLDV	Chang Lin, Shih-Chun Hsieh, Ming-Jer Kao, Hua-Yung Hsu	73
Steady-State Behavior and Riding Comfort of Trains Moving over a Series of Elevated Bridges and Impact Response of the Bridge	Yean-Seng Wu, Chen-Lin Chen, Yeong-Bin Yang	93
Study of the Cave-in trough under Diaphragm Wall Trench Failure	Jiin-Song Tsai, Yi-Chang Yeh	105
Estimating Outflow of the Ungauged Area-Modeling by Artificial Neural	Chang-Shian Chen, Bor-Tsang Chen	115
Shear and Flexural Strength Predictions for Reinforced Concrete Beams Using FRP Laminates	Hsin-Wan Yu, Shyh-Jiann Hwang	125
Relaxation of the Inclined Angle for Cylindrical and Spherical Granular Material Under Horizontal Vibrations	Hsien-Ter Chou, Yi-Yao Chang	137
A Hybrid Model Coupling Analytic Simulation with Optimization for Rule Curves-Based Operation in Reservoir Systems	Song-Ching Lin, Ray-Shyan Wu	147
Analytical Expressions of Curvatures of Higher-Order Helical Lines in Wire Ropes by Particle-Motion-Analogy Method	Jia-Yih Yen, Chun-Hsi Chen, Kuen-Long Ho	159
The Application of Electric Arc Furnace Reduction Slag to High Performance Concrete	Chu-Chan Chiang, Yuan-Yuan Chenn, Ting-Yi Lin, Chao-Lung Hwang	167

Technical Short Papers

Effects of Debris Content and Gradation on Engineering Properties of Excess Soils	Yang Chau-Ping, Wang Ming-Der	179
A Lead Stabilizer Agent of Fly Ash from MSWI with a Function of Reduction of Hydration Heat	Wu-Jang Huang	187