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Altri autori (Persone)	XieLiquan
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Nota di contenuto	Applied Mechanics and Civil Engineering II; Preface and Sponsor; Table of Contents; Chapter 1: Applied Mechanics; Progress in Numerical Studies of KE Projectile into Concrete with Mass Loss; Numerical Simulation of the Elastic Field Nearby the Source and its Data Analysis; The Fined COD Transform Formula for CT Specimens to Investigate Material Fracture Toughness; Study of the Bending Stiffness and Cable Characteristics of Tension Components; Calculation for Elastic Global Buckling of Sandwich Plates with Ribs; The Finite Element Model Research of the Pre-Twisted Beam Chapter 2: Rock & Soil Mechanics Research on the Impact of the Water-Level-Fluctuation Zone on Landslide Stability in the Three Gorges Reservoir Area; Experimental Study on Dynamic Consolidation Method to Improve Saturated Soft Soil Foundation; Comparative Study on Settlement Prediction of Railway Subgrade on Collapsible Loess Area; Analysis of Vertical Bearing Capacity of Single-Row Pile Group of an Offshore Platform; FEM Analysis on Tensile Force of Geosynthetic Reinforcement Arranged in GRS-RW Considering Variable Loading Rate Numerical Study of the Influence of Interlayer Mechanical Properties on Salt Cavern Storage Stability Study on the Evaluation Method of

Subgrade Settlement Caused by Structure Layer of the High-Speed Railway; Study on Triaxial Creep Experiment of Beishan Granite under Low Confining Pressures; Determination of Ultimate Filling Height of Slag Subgrade with FEM Modelling; The Numerical Solution of Richards Equation Using the Lattice Boltzmann Method; Research on the Cavern Stability and Rock Fracture with Different Joint Groups  
Study on the Mechanisms of Hydraulic Fracturing Crack Initiation and Propagating  
Chapter 3: Building Structure and Bridge Structure; Quasi-Static Test of Reinforced Concrete Shear Wall with Low Concrete Strength and Reinforcement Ratio; The Effect to Structure due to SSI; A Residential Building Crack Test and Construction Safety Assessment; Development of ZJ200 Portable Steel Bridge; Vibration Test and Stochastic Analysis of Large-Span Cantilevered Floor; Experimental and Numerical Study on Torsional Behavior of Precast Concrete Screw Pile Body  
Whole-Span and Whole Length Pre-Stress Loss Monitoring Technique Study in Bonded Pre-Stressed System  
Study on Thermal Stresses of Over-Long Concrete Slab; The Experimental Research of New Lightweight Steel Composite Slab; Research on Temperature Influences in Cable-Stayed Bridges' Health Monitoring; The New Analytical Theory of Restrained Torsion of Thick-Walled Concrete Box Girder Bridge; Calculation of Corrosion Losses on Weathering Steel Structures;  
Chapter 4: Construction Materials and Engineering Applications; Experimental Study of Mix Proportion of Magnesium Oxychloride Cement  
Improving Preparation of Porous Ceramic Foamed by Microbe

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Sommario/riassunto

These 54 peer-reviewed papers from the Second SREE Workshop on Applied Mechanics and Civil Engineering (AMCE 2012), held on the 15th and 16th September 2012 in Hong Kong, are grouped into ten chapters: Applied Mechanics; Rock and Soil Mechanics; Building Structure and Bridge Structure; Construction Materials and Engineering Applications; Tunnels and Underground Structures; Civil Engineering; Hydraulic Engineering and Water Treatment; Mechanical Engineering and Instrumentation; Transportation Engineering; Environmental Engineering and Safety. Review from Book News Inc.: These proceedings collec

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