

图书基本信息

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内容概要

"Advances in FRP Composites in Civil Engineering" contains the papers presented at the 5th International Conference on Fiber Reinforced Polymer (FRP) Composites in Civil Engineering in 2010 , which is an official conference of the International Institute for F-RP in Construction (IIFC) . The book includes 7 keynote papers which are presented by top professors and engineers in the world and 203 papers covering a wide spectrum of topics. These important papers not only demonstrate the recent advances in the application of FRP composites in civil engineering , but also point to future research endeavors in this exciting area. Researchers and professionals in the field of civil engineering will find this book is exceedingly valuable. Prof. Lieping Ye and Dr. Peng Feng both work at the Department of Civil Engineering , Tsinghua Univcrsity , China.Qingrui Yue is a Professor at China Metallurgical Group Corporation.

书籍目录

Vol. FRP for Future Structures Keynote Papers Innovative Textile-Based Composites for Strengthening and Seismic Retrofitting of Concrete and Masonry Structures Strengthening of Concrete, Metallic and Timber Construction Materials with FRP Composites Multifunctional and Robust Composite Material Structures for Sustainable Construction Hybrid FRP-Concrete-Steel Double-Skin Tubular Structural Members Durability of GFRP Reinforcement Bars FRP Design Using Structural Mechanics Models Finite Element Modelling of FRP-to-Concrete Bond Behaviour Using the Concrete Damage Plasticity Theory Combined with a Plastic Degradation Model FRP Materials and Sustainable Fiber Reinforced Cementitious Composites (FRCC) Plate for the Anchoring of FRP Sheet on Concrete Member Study of Tensile Behavior for Interval Impregnated Hybrid Carbon/Basalt Fiber Sheet (C/BFS) Statistical Studies on Material Behavior of CFRP Sheets under Uniaxial Loads and Its Application in Reliability Analysis Comprehensive Characterization of BFRP Applied in Civil Engineering Influence of Elevated Temperature on the Mechanical and Thermal Performance of BFRP Rebar Composite Decks and Sustainable Development: a Case Study Matrix and Fabric Impregnation Influence on Textile Reinforcement Concrete Behaviour Discrete Fiber Reinforced Polyurea for Hazard Mitigation Experimental Research on the Fundamental Mechanical Properties of Presoaked Basalt Fiber Concrete All FRP Structures Shear Buckling of GFRP Beam Webs Shear Wrinkling of GFRP Webs in Cell-Core Sandwiches Pin-Bearing Strengths for Design of Bolted Connections in Pultruded Structures Development of an Effective Joining Method for a Pultruded Hybrid CFRP/GFRP Laminate A Consistent Design Concept for Bolted Connections in Standardized GFRP-Profiles Composite Behavior of a Pultruded Hybrid CFRP-GFRP Beam with UFC Deck Sensitivity Studies on Local Flange Buckling Equations for Pultruded Beams and Columns Analytical Study on Buckling Modes of Simply Supported Delaminated Composite Beams Interlaminar Behavior of Paulownia Wood Sandwich Composites with Grooves GFRP Structures Subjected to Dynamic Action GFRP Members in Free Vibrations Field, Dynamic Parameters of Profiles and 3D Structure Experimental Design on Multi Layers of LVL Fiber Reinforced Wood Composite Using Bagasse as Core Structure Shear Behavior of Glue-Laminated Composite Sandwich Beams Flexural Behavior of FRP Reinforced Glulam Beams Trial Design of Cable-Stayed Bridges Using Hybrid Composite Girders and Applicability to Free Passage Over Railway Performance Based Design of Laminated FRP Box Girders for Short Span Bridges A Design Concept for an All Composite Road Bridge Mechanical Model and Analysis of FRP Woven Web Structures GFRP-Polyurethane Sandwich Panels under Reversed Bending Fatigue Development and Experimental Verification of a Pedestrian Slab Bridge Using GFRP Pultrusion Profiles Study on Dynamic Characteristics of Light-Weight FRP Footbridge Honeycomb Fiber-Reinforced Polymer Sandwich Panels for Fish Culture Tanks FRP Hybrid Structures and Concrete-Filled FRP Tubes Hybrid FRP-Concrete Structural Member: Research and Development in North America..... Vol. FRP Strengthening Structures Author Index

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