

# Table of Contents

## Preface, Committees and Sponsors

<b>The Study on High Building Structures Decentralized Vibration Control</b> X.Q. Wang and X.Y. Dong	1
<b>Research on Forensic Engineering System of Bridge</b> G.Q. Cheng and X.F. Shi	6
<b>Study on Traditional Chinese Architecture</b> X. Mu and Y. Huang	11
<b>Solar Energy Comprehensive Utilization on Rural Architectural Equipments</b> T.M. Guo and X.B. Liu	16
<b>Exploration of Construction above Subway Station in Tianjin and Related Theories Study</b> J.Q. Li and J.W. Yan	21
<b>A Computer-Based Method for Building Design and Construct</b> Z.Q. He	27
<b>The Evaluation on Civil Engineering Construction Sustainable Development Using Grey Relational Analysis</b> Z.Q. He	32
<b>Study on the Standardization of Civil Building Heating Design Flow</b> R. Yang	37
<b>Research on Development and Promotion of the Green Indemnificatory Apartment</b> J.Y. Lou	42
<b>Control and Management in the Implementation Phase of the Civil Construction</b> Y.Z. Guo	46
<b>Applied Research of the Innovation Construction Mode</b> X.L. Liu	50
<b>Green Building and Sustainable Development</b> H.J. Jia and H. Wang	55
<b>Application of State Equation Method for Coupled Hydro-Mechanical Analysis in Dual-Porosity Media</b> M.L. Zhao and Q.Y. Zhang	59
<b>Application of Nano-TiO<sub>2</sub> Photocatalysis Technology in Purification Exhaust</b> M. Chen and L.S. Jin	64
<b>The Study on Slope Stability Analysis Based on Finite Element Method</b> Y.X. Huo and H.F. Zhai	70
<b>Analysis on Application of Chinese Style Elements in Modern Architecture Design and Construction</b> H. Feng and C. Xiao	75
<b>The Study on PF-CaCO<sub>3</sub>/Fast-Growing Poplar Composite</b> Z. Jia, Z.X. Gao, G.L. Li, C.Y. Wang and H. Ma	80
<b>The Analysis of Design Methods about High-Rise Public Building Energy Saving</b> Y. Shao and P. Li	84
<b>Application of Green Energy-Saving Materials in Exhibition Design</b> H.M. Qin and L. Zhang	90
<b>Influence of Steel Slag Powder with Different Specific Surface Area on the Properties of Foam Concrete</b> D.L. He, H.Q. Liao, Z.C. Guo, S. Baatar, G.W. Yu, D.M. Deng, T. He and P. Li	95
<b>Report of Experimented on Compressive Strength of Concrete Using Granulated Blast Furnace Slag as Fine Aggregate</b> D.S. Shi, P. Han, Z. Ma and J.B. Wang	100
<b>The Study on Low-Carbon Building Using Natural Air Condition</b> W.Z. Li	104
<b>Solutions to Lateral Critical Buckling Force of Pipeline Based on Energy Method</b> Y.X. Liu	109
<b>The Ecological Value of Yao-Dong and Potential for Development</b> Y. Wang and G.W. Li	113

<b>A Study on the Application of Agricultural Products and Byproducts in Green Building Materials</b>	118
L. Ma	
<b>Energy Saving Calculation and Analysis of the Rural House in Hohhot</b>	122
J. Wang	
<b>The Research about Energy Saving Reconstruction of the Houses in the Countryside in Inner Mongolia</b>	126
J. Wang and L.P. Sun	
<b>The Application of Insulated Double-Glass Photovoltaic Module in BIPV</b>	132
X.L. Wu, X.Y. Den and C.G. Wei	
<b>Problems Analysis and Solution of Bridge Pier Displacement in Ning-Tai-Weng Highway with Soft Clay Ground</b>	137
X.Q. Hu, H.G. Huang, X.T. Zhao and J.T. Long	
<b>Coastal Building Setback Line Determining Method and Application</b>	142
P. Wang, J.Z. Wu and X.J. Tan	