Table of Contents

| n | | c | |
|---|----|-----|---|
| ν | ro | t o | C |
| | | | |

| Design of a Long-Term Monitoring System for a PSC Continuous Box-Girder Bridge C. Chen, K. Mosbeh, Z.L. Wang, Q.F. Gao and J.F. Zhong | 1 |
|--|-----|
| Proposed and Method Presentation of Bridge Model Updating D.J. Wang, D.M. Feng and B. Jin | 11 |
| A Study on Practical Design in Joint Core Area of Concrete Beam Y. Zhao, J.Y. Chai and Y. Liu | 19 |
| The Approximate Analytical Method Based on Differential Equations for Solving Problems of Statically Determinate Beam and Rigid Frame X.D. Zhang, X. Gao and L. Wang | 27 |
| Challenges of Dealing with the Massive Monitoring Data for Safety Assessment of Bridges F.M. Liu and Q. Ding | 35 |
| Pre-Camber Study on the Steel-Concrete Composite Beam Constructed by the Incremental Launching Method Y.M. Sun, W. Zhang and D.B. Wang | 43 |
| Development and Challenge of Structural Health Monitoring of Long-Span Bridges Z.C. Tan, S. Qiu and Y. Liu | 51 |
| Comfort Analysis of Large-Span Continuous Girder Bridges to Moving Vehicular Loads Q.F. Gao, Z.L. Wang, C. Chen and B.Q. Guo | 61 |
| Commonly Encountered Damages in Cable Members of CFST Arch Bridge and Detection Methods | |
| X. Gao, L.J. Liu, S.K. Yao, J.W. Yang and Y. Li | 71 |
| Seismic Response Analysis to Half Floating System of Cable-Stayed Bridge X.Y. Gao and Y.T. Jiang | 81 |
| Some Key Issues and Challenges of Building the Structural Health Monitoring System of Bridges | |
| G.M. Xu, L. Chen and X. Gao | 91 |
| Influential Parameter Study on the Main-Cable State of Self-Anchored Suspension Bridge Y.M. Sun, X.D. He and W.D. Li | 99 |
| Experimental Study on the Fatigue Damage of High Strength Concrete under Uniaxial Compression | |
| L.H. Yin, Z.L. Wang and Y. Liu | 109 |