

1. Record Nr.	UNINA9910465008103321
Titolo	Some research results on bridge health monitoring, maintenance and safety IV : special topic volume with invited peer reviewed papers only / / edited by Yang Liu
Pubbl/distr/stampa	Pfaffikon, Switzerland : , : TTP, , 2014 ©2014
ISBN	3-03826-554-3
Descrizione fisica	1 online resource (121 p.)
Collana	Key Engineering Materials ; ; v.619
Disciplina	624.28
Soggetti	Bridges - Maintenance and repair Bridges - Testing Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes indexes.
Nota di contenuto	Some Research Results on Bridge Health Monitoring, Maintenance and Safety IV; Preface; Table of Contents; Design of a Long-Term Monitoring System for a PSC Continuous Box-Girder Bridge; Proposed and Method Presentation of Bridge Model Updating; A Study on Practical Design in Joint Core Area of Concrete Beam; The Approximate Analytical Method Based on Differential Equations for Solving Problems of Statically Determinate Beam and Rigid Frame; Challenges of Dealing with the Massive Monitoring Data for Safety Assessment of Bridges Pre-Camber Study on the Steel-Concrete Composite Beam Constructed by the Incremental Launching Method Development and Challenge of Structural Health Monitoring of Long-Span Bridges; Comfort Analysis of Large-Span Continuous Girder Bridges to Moving Vehicular Loads; Commonly Encountered Damages in Cable Members of CFST Arch Bridge and Detection Methods; Seismic Response Analysis to Half Floating System of Cable-Stayed Bridge; Some Key Issues and Challenges of Building the Structural Health Monitoring System of Bridges Influential Parameter Study on the Main-Cable State of Self-Anchored Suspension Bridge Experimental Study on the Fatigue Damage of High Strength Concrete under Uniaxial Compression; Keywords Index;

Sommario/riassunto

In China, the amount of deteriorating bridges is increasing gradually, and the costs of maintenance, repair and rehabilitation of these bridges far exceed available budgets. Internationally, above issue also is paid more attention. To alleviate this issue, the bridge engineering profession continues to take positive steps towards developing more comprehensive bridge monitoring and management systems. Therefore, it is significant to combine some good works that have been done in this field, which is the original objective to introduce the recent research results in the fields of bridge health monitoring