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Titolo	Bridge health monitoring, maintenance and safety : special topic volume with invited peer reviewed papers only // editor, Yang Liu
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Descrizione fisica	1 online resource (124 pages) : illustrations
Collana	Key engineering materials, , 1013-9826 ; ; v. 456
Altri autori (Persone)	LiuYang
Disciplina	624.2
Soggetti	Bridges - Maintenance and repair Bridges - Testing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Modal test and analysis of a bridge under the varying temperature condition -- Bridge significant failure mode identification strategy under traffic-load -- Fatigue reliability analysis of the stay cables of cable-stayed bridge under combined loads of stochastic traffic and wind -- Updating the finite element model of a bridge model using a hybrid optimization method -- An improved Taguchi method and its application in finite element model updating of bridges -- Nonlinear seismic response analysis of half through CFST arch bridge under 3-D earthquake waves -- Simplified seismic response assessment method and parametric study of multi-girder skew bridges -- Seismic testing of a long-span concrete filled steel tubular arch bridge -- Study on finite element model of bridge multi-pile foundation -- Sensor optimal placement for bridge structure based on single parents genetic algorithm with different fitness functions.
Sommario/riassunto	This project encompasses various aspects of bridge health-monitoring, maintenance and safety. It specifically deals with: bridge health-monitoring; bridge repair and rehabilitation issues; bridge-related safety and other implications. The objective of the project is to introduce recent research results into the fields of bridge health monitoring, bridge maintenance and safety. It should be required

reading not only for civil and mechanical engineers, but also municipal
functionaries. Review from Book News Inc.: Intended for engineering
graduate students and infrastructure maintenance managers,
