

1. Record Nr.	UNINA9910437899903321
Titolo	New trends in structural health monitoring / / Wiesaw Ostachowicz, J. Alfredo Guemes, editors
Pubbl/distr/stampa	Wien ; ; London, : Springer, [2013]
ISBN	9781299197961 1299197965 9783709113905 3709113903
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (432 p.)
Collana	CISM courses and lectures, , 0254-1971 ; ; v. 542
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Disciplina	624.17
Soggetti	Structural health monitoring
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.
Nota di contenuto	A motivation for structural health monitoring -- Structural health monitoring of aircraft structures -- Vibration-based damage diagnosis and monitoring of external loads -- Statistical time series methods for vibration based structural health monitoring -- Fiber optic sensors -- Damage localisation using elastic waves propagation methods experimental techniques -- Application for wind turbine blades.
Sommario/riassunto	Experts actively working in structural health monitoring and control techniques present the current research, areas of application and tendencies for the future of this technology, including various design issues involved. Examples using some of the latest hardware and software tools, experimental data from small scale laboratory demonstrators and measurements made on real structures illustrate the book. It will be a reference for professionals and students in the areas of engineering, applied natural sciences and engineering management.