1. Record Nr. UNINA9910821933403321

Titolo	Handbook of measurement in science and engineering . Volume 1 / / edited by Myer Kutz
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , 2013 ©2013
ISBN	1-5231-0987-4 1-118-44697-6 1-118-44695-X 1-118-43670-9
Descrizione fisica	1 online resource (1037 p.)
Disciplina	620/.0044
Soggetti	Structural analysis (Engineering) Dynamic testing Fault location (Engineering) Strains and stresses - Measurement
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Handbook of Measurement in Science and Engineering is available online in full color at http://onlinelibrary.wiley.com/book/10.1002/9781118436707."
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Cover; Title Page; Copyright Page; Contents; Preface; Contributors; PART I CIVIL AND ENVIRONMENTAL ENGINEERING; 1 New and Emerging Technologies in Structural Health Monitoring; 1.1 Introduction; 1.2 Background; 1.3 New and Emerging Technologies; 1.3.1 General; 1.3.2 Fiber-Optic Sensors (FOS); 1.3.3 The Global Positioning System (GPS); 1.3.4 Microelectromechanical Systems (MEMS); 1.3.5 Corrosion Monitoring; 1.3.6 B-WIM, WIM; 1.3.7 Nondestructive Testing (NDT); 1.3.8 Interferometric Radar; 1.3.9 Photogrammetry; 1.3.10 Smart Technical Textiles 1.3.11 Specific Issues Around Usage of New Technologies1.3.12 Chosen Technologies and Motivation; 1.4 Fiber-Optic Technology; 1.4.1 General; 1.4.2 Sensors Based on Sagnac, Michelson, and Mach-Zehnder Interferometers; 1.4.3 Sensor Based on the Fiber Bragg