1. Record Nr. UNINA9910134863003321

Titolo	Materials and infrastructures . 1 / / edited by Jean-Michel Torrenti, Francesca La Torre
Pubbl/distr/stampa	London, England ; ; Hoboken, New Jersey : , : ISTE : , : Wiley, , 2016 ©2016
ISBN	1-119-31857-2 1-119-31856-4 1-119-31858-0
Descrizione fisica	1 online resource (453 p.)
Collana	Research for Innovative Transports Set ; ; 5A THEi Wiley ebooks
Disciplina	625.8
Soggetti	Road materials
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 at the end of each chapters and index.
Nota di contenuto	Cover; Title Page; Copyright; Contents; Preface; Acknowledgments; Introduction; PART 1: Materials for Infrastructures; PART 2: Auscultation and Monitoring; PART 3: Durability and Maintenance Repair; List of Authors; Index; Contents for Volume 5B; EULA; I.1. Main findings; I.2. Conclusions; 1: Use of an Ultra-wide Band Radar to Detect Slope Movements Along Transport Infrastructures; 2: Intelligent Compaction Technology for Geomaterials: A Demonstration Project; 3: Geotechnical Challenges Related to Transport Infrastructures on Sensitive Soft Clay Deposits 4: Performance Control of Bituminous Mixtures with a High RAP Content5: Integration of Materials Science-based Performance Models into PMS; 6: Decision Aid Model for Asphalt Mixture Choice; 7: Experimental Study of Binder-Filler Interaction Using the Modified Multiple Stress-Strain Creep Recovery Test; 8: Reliability of New Shear Design Equations for FRP-strengthened Concrete Bridge Girders; 9: Experimental Investigation and Modeling of the Bond between Aramid Fiberreinforced Polymer Bars and Concrete; 10: Innovative Use of FRP for Sustainable Precast Concrete Structures

11: 3D Extraction of the Relief of Road Surface through Image Analysis12: Measurement Error Models (MEMs) Regression Method to Harmonize Friction Values from Different Skid Testing Devices; 13: Accurate and Up-to-Date Evaluation of Extreme Load Effects for Bridge Assessment; 14: Transportation Infrastructure Monitoring Using Satellite Remote Sensing; 15: Monitoring of Scour Critical Bridges using Changes in the Natural Frequency of Vibration of Foundation Piles: A Preliminary Investigation
16: Evaluation of Multilayer Pavement Viscoelastic Properties from Falling Weight Deflectometer using Neural Networks17: Accuracy of Ground-penetrating Radar in Pavement Thickness Evaluation: Impact of Interpretation Errors; 18: Full-scale Test on Prefabricated Slabs for Electrical Supply by Induction of Urban Transport Systems; 19: The Poroelastic Road Surface (PERS): Is the 10 dB Reducing Pavement within Reach?; 20: Modeling Subjective Condition Data of Asphalt Surfaced Urban Pavements; 21: Modeling of Aging of Low-noise Road Surfaces
22: Evaluation of Load-carrying Capacity of Asphalt Superstructures from Deflection Measurements23: Durable Pothole Repairs; 24: Application of Multicriteria Assessment for the Selection of At-grade Intersections; 25: Low-energy and Environmentally-friendly Solutions for Road Maintenance; 26: 3D Longitudinal and Transverse Cracking and the Influence of Non-Uniform Contact Pressure on the Stress Intensity Factors of these Cracks; 27: Selecting a Road Network Maintenance Strategy to Achieve the Operator's Objectives; 1.1. Introduction; 1.2. Development of transportable ultra wide-band radar 1.3. Conclusion