1. Record Nr. UNINA9910457995503321 Research transformed into practice [[electronic resource]]: **Titolo** implementation of NSF research: proceedings of the conference sponsored by the National Science Foundation, Arlington, Virginia, June 14-16, 1995 / / edited by James Colville and Amde M. Amde Pubbl/distr/stampa New York, : American Society of Civil Engineers, c1995 **ISBN** 0-7844-7008-1 Descrizione fisica 1 online resource (747 p.) Altri autori (Persone) ColvilleJames <1936-> AmdeAmde M Disciplina 338.97306 Soggetti Engineering - Research - United States Technology transfer - United States Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and indexes. ""Contents"": ""CHAPTER I: ENGINEERING INFRASTRUCTURES"": Nota di contenuto ""Transferring Electronic Packaging Research Results"": ""Design of Landfill Covers Using Paper Mill Sludges"": ""Reliability-Based Rehabilitation of Water Infrastructure""; ""Wind Engineering Research Applications""; ""Assessing Effects of Natural and Man Made Hazards""; ""CHAPTER II: COMPOSITES, STRUCTURAL SYSTEMS AND CONNECTIONS""; ""Design and Evaluation of First Multi-cellular Fiber Reinforced Plastic Building""; ""Research into Practice for Large Ocean Structures""; ""Thin Steel Plate Shear Walls, Research to Practice"" ""Behavior of Poltruded Composite Frame Structures and Connections"""Design and Implementation of ATLSS Connections""; ""Design Applications of a Prestressed FRP/Kevlar Cable Structural System""; ""CHAPTER III: INSTRUMENTATION""; ""Impact-Echo: Development and Technology Transfer""; ""High Speed Ultrasonic Tomography for the Detection of Flaws in Concrete Members": ""An Ultrasonic Field Monitoring Instrument for Evaluation of Timber Bridges""; ""Fatigue Loading Indicator for Bridges""; ""Magnetic

Nondestructive Evaluation Techniques for Inspection of Railroad

Bridges""

""A Non-Destructive Evaluation Instrument for Axial Load Measurements"""An Electric Dispersion Technique for Soil Characterization""; ""Use of Fiber Optic Sensors for the Non-Destructive Strength Evaluation and Early Warning of Impending Failure in Structural Components""; ""Development of an Automated Pavement Inspection System for the Non-Destructive Evaluation of Highway and Airfield Pavements""; ""CHAPTER IV: SOFTWARE""; ""FRANC2D: A Case Study in Transfer of Software Technology""; ""Development and Implementation of an Automated Design System for Steel Roof Trusses""

""Pseudo Dynamic Testing Software"""From Algorithm to Practical Toola €?The Development of a Construction Time-Cost Trade-Off
Optimization System""; ""Random Vibration Analysis: From Research
into Practice""; ""Probabilistic Prediction of Tunnel Boring Machine
Performance""; ""An Interactive System for Geotechnical Spatial
Analysis""; ""The Development of Implementation of SEISAB""; ""The
National Institute for Computers in Engineering (NICE) Revisited"";
""CHAPTER V: MASONRY""; ""Injection Grouting for Repair of Masonry:
Research to Practice""

""U.S. Coordinated Program for Masonry Building Research: Technology Transfer"""Nondestructive Evaluation of Masonry Structures: Standardization and Current Practice""; ""Shear Strength of Composite Masonry Walls""; ""Polymer Modified Mortars in Brick Masonry Construction""; ""CHAPTER VI: BRIDGES""; ""Implementation of Bridge Inspection Technologies""; ""Evaluation and Testing of a Fracture Critical Bridge""; ""McKinleyville Jointless Bridge with FRP Bars in Concrete Deck""; ""Stress-Laminated Timber Bridges: Research Into Practice""

""The Timber Bridge Initiative in West Virginia: Are New Timber Bridges a Practical Choice?""