

technical webinar

# Nondestructive Testing of Deep Foundations



**Oct 13**  
**2:00-3:00 PM EDT**

**Dr. Farid Moradi**

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# Nondestructive Testing Of Deep Foundations

**National Research Council (U.S.).  
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## **Nondestructive Testing Of Deep Foundations:**

Nondestructive Testing of Deep Foundations Bernard Hertlein, Allen Davis, 2007-01-11 Nondestructive Testing involves the use of methods such as wave propagation electromagnetism electrical conductivity and thermal conductivity to test structural integrity and thereby allow nondestructive assessment of structures and the possibility of structural failures before they occur Nondestructive Testing of Deep Foundations covers different techniques designed to provide information about the integrity and quality of the material that makes up a deep foundation Nondestructive Testing methods are used at all stages of a structure's life from new construction quality control to residual lifetime prediction and even during the monitoring of demolition In addition Nondestructive Testing is being increasingly specified in deep foundation projects though often without a good understanding of its limitations and with the result that methods are often misused In order to be able to specify an appropriate method or to recognize an inappropriate specification it is necessary for the engineer specifier and or contractor to understand the capabilities and limitations of each of the methods currently in use Nondestructive Testing of Deep Foundations Describes the most commonly used deep foundation construction techniques including typical use of material Provides a brief history of the development of commercially available nondestructive methods Summarises each method's capabilities and limitations Acts as a one stop reference drawing together resources only previously available in conference proceedings and journal papers This manual will prove to be a welcome addition to the bookshelf of all practitioners in civil structural and geotechnical engineering and architecture It will also provide a valuable insight into this highly technical field for university researchers lecturers and postgraduate students in civil structural and geotechnical engineering **Integrity Testing of Foundations, 1991** National Research Council (U.S.). Transportation Research Board, 1991 **Manual for Non Destructive Testing and Evaluation of Drilled Shafts** Deep Foundations Institute. Drilled Shaft Committee, Deep Foundations Institute. Testing and Evaluation Committee, ADSC., 2004

**Current Practices and Future Trends in Deep Foundations** Jerry A. DiMaggio, Mohamad H. Hussein, 2004 GSP 125 contains 26 papers on state of the art developments in deep foundation collected in honor of George G Goble Ph D P E

**Deep Foundations 2002** Michael W. O'Neill, Frank C. Townsend, 2002 Proceedings of the International Deep Foundations Congress 2002 held in Orlando Florida February 14 16 2002 Sponsored by The Geo Institute of ASCE This Geotechnical Special Publication contains 110 papers documenting applied research and engineering experience in the area of deep foundations The volume is a comprehensive resource for both researchers and practitioners covering driven jacked and augered piles and drilled shafts Topics include geotechnical design structural design innovative construction validation and verification of design and construction soil structure interaction reliability based design field load testing for design concepts for deep foundation systems such as piled rafts numerical and analytical modeling of pile foundations design of foundations for extreme events and numerous and varied case histories Several papers also focus on the acquisition and use

of geomaterial properties for deep foundation design and the use of deep foundations in walls      Nondestructive Evaluation of Aging Structures and Dams Larry D. Olson, Society of Photo-optical Instrumentation Engineers, 1995      *Proceedings of the International Workshop on Nondestructive Evaluation for Performance of Civil Structures* M. S. Agbabian, S. F. Masri, 1988

*Analysis, Design, Construction, and Testing of Deep Foundations*, 1999 GSP 88 contains 19 papers presented at the Offshore Technology Research Center Conference held in Austin Texas April 29 30 1999      Advances in Designing and Testing Deep Foundations Michael W. O'Neill, 2005 *Advances in Designing and Testing Deep Foundations* contains 25 papers on designing constructing and testing various types of piles and piled rafts This Geotechnical Special Publication No 129 honors the late Professor Michael W O Neill Ph D P E a distinguished educator and researcher who made significant contributions toward the advancement of the state of the art and state of the practice of deep foundations Professor O Neill played a critical role in investigating the load transfer mechanisms of various types of piles in soils and rocks and was internationally known for his work on drilled shafts augered piles and field testing of various types of piles This publication is an effective means of sharing the advances in deep foundations with practitioners researchers and designers

**Multi-functional Materials and Structures** Alan Kin Tak Lau, J. Lu, Vijay K. Varadan, Fu-Kuo Chang, J.P. Tu, Pou Man Lam, 2008-06-12 Selected peer reviewed papers from International Conference on Multifunctional Materials and Structures July 28 31 2008 Hong Kong P R China      **Foundation Engineering** Fred H. Kulhawy, 1989      **In Situ/ Nondestructive Testing of Concrete**, 1984      An Annotated Bibliography of Nondestructive Testing of Concrete, 1975-1984 N. G.

Zoldners, J. A. Soles, 1985 This annotated bibliography chronologically arranged compiles literature published from 1975 to 1984 on innovations and modifications of non destructive methods used for the testing of concrete Attention was focused on the new methods used for monitoring concrete deterioration crack development and corrosion of reinforcement bars

Seismic Performance and Simulation of Pile Foundations in Liquefied and Laterally Spreading Ground Ross W. Boulanger, Kohji Tokimatsu, 2006 *Proceedings of a workshop on Seismic Performance and Simulation of Pile Foundations in Liquefied and Laterally Spreading Ground* held in Davis California March 16 18 2005 Sponsored by the Pacific Earthquake Engineering Research Center University of California at Berkeley Center for Urban Earthquake Engineering Tokyo Institute of Technology Geo Institute of ASCE This collection contains 25 papers that discuss physical measurements and observations from earthquake case histories field tests in blast liquefied ground dynamic centrifuge model studies and large scale shaking table studies Papers contain recent findings on fundamental soil pile interaction mechanisms numerical analysis methods and reviews and evaluations of existing and emerging design methodologies This proceeding provides comprehensive coverage of a major issue in earthquake engineering practice and hazard mitigation efforts      **The Indian Concrete Journal**, 1975

*Nondestructive Testing of Concrete Elements and Structures* Farhad Ansari, Stein Sture, American Society of Civil Engineers. Engineering Mechanics Division, 1992 *Proceedings of Sessions* sponsored by the Engineering Mechanics Division

of the American Society of Civil Engineers in conjunction with the Structures Congress San Antonio Texas April 13 15 1992  
*Proceedings [of The] Sixth Symposium on the Nondestructive Testing of Wood* ,1987      **Advanced Nondestructive  
Evaluation for Structural and Biological Health Monitoring** ,2001      **Recycled Materials in Geotechnics** Ahmet H.  
Aydilek,Joseph Wartman,2005 GSP 127 contains 15 papers highlighting the use of recycled materials in geotechnics  
presented in sessions of the ASCE Civil Engineering Conference and Exposition held in Baltimore Maryland October 19 21  
2004      **Evaluation of Inaccessible Drilled Shafts Using the Impulse Response Method** Peter J. Prommer,Richard J.  
Finno,1994

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