FHWA InfoTechnology™

https://infopave.fhwa.dot.gov/infotechnology

All photos source: FHWA.[1]

The Federal Highway Administration (FHWA) developed InfoTechnology™ to fill the knowledge gap between highway infrastructure practitioners/asset managers dealing with highway infrastructure performance challenges and researchers developing and refining nondestructive evaluation (NDE) technologies to support their efforts.

The InfoTechnology web portal was developed and is maintained by the FHWA Office of Infrastructure Research and Development. FHWA encourages the application of NDE technologies to better understand the performance of highway infrastructure, which is critical for efficient transportation asset management. As highway agencies increasingly incorporate NDE technologies to assess infrastructure, this web portal will:

- Provide information on the available technologies for detecting and characterizing a specific issue.
- Allow for a better understanding of the technologies and methods of analysis.
- Describe limitations and advantages of NDE methods.

Users can click on these icons on the InfoTechnology web portal to explore NDE technologies by asset type.

InfoTechnology is a web-based portal that provides concise information about NDE technologies for the assessment of highway infrastructure. It has an intuitive and user-friendly interface that provides an overview of specific NDE technologies. A description of the technology, the engineering principles used for the method, and application of the technology, analysis procedures, limitations, and advantages are displayed in an easy-to-read format. The information is supplemented with images, diagrams, tables, and references. Filters enable users to quickly identify and access information on NDE technologies related to bridges, pavements, and tunnels.

The FHWA InfoTechnology web portal assists practitioners in using NDE technologies for bridge, pavement, and tunnel infrastructure components.

FIND TECHNOLOGY

The Find Technology feature allows users to narrow their searches by selecting the type of asset (bridge, pavement, or tunnel), materials, structural element, and the target of the investigation.

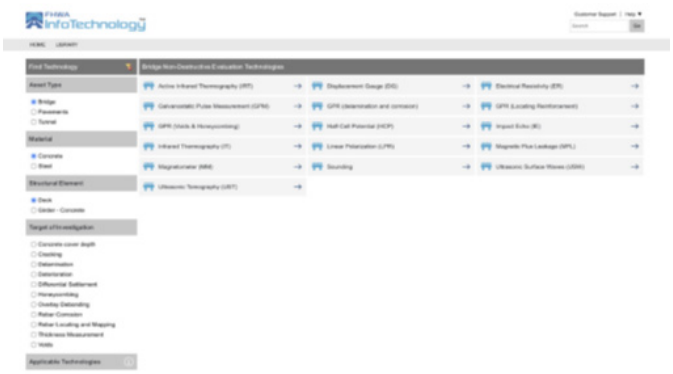
For instance, if users are interested in accessing information regarding the recommended NDE technologies for detecting corrosion of reinforcement bars in concrete bridge decks, they may select the following:

- Asset Type: Bridge.
- Material: Concrete.
- Structural Element: Deck.
- Target of Investigation: Rebar Corrosion.

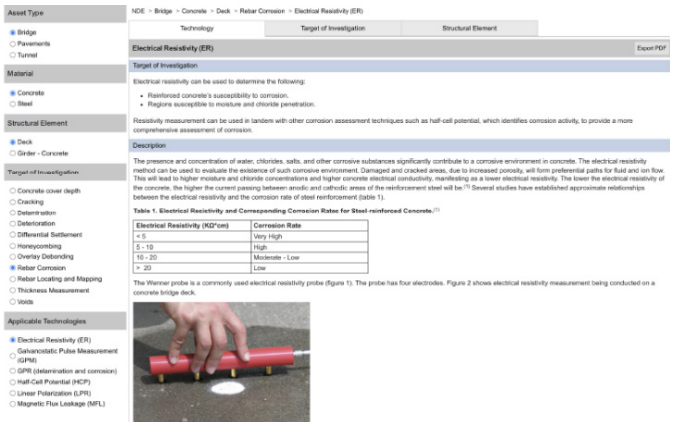
Upon selection of a particular technology, the information on the technology, the target of the investigation, and a description of the structural element to be assessed are displayed on the screen.

LIBRARY

The library feature provides a Glossary of terms and a list of Acronyms and Abbreviations that are used within the web portal. Practitioners and asset managers can use the library search tool to find information on unfamiliar technical terms and acronyms used in the field of NDE. The search capabilities of the library facilitate accessing the information on technical terms.



Source: FHWA.[1]



Source: FHWA.[1]

REFERENCE

1 Federal Highway Administration. n.d. "FHWA InfoTechnology" (web page). https://infopave.fhwa.dot.gov/infotechnology, last accessed October 13, 2021.

CUSTOMER SUPPORT

For more information about FHWA InfoTechnology, contact the Long-Term Infrastructure Performance Customer Support Service Center at LTIP@dot.gov.

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