MATERIALS EVALUATION

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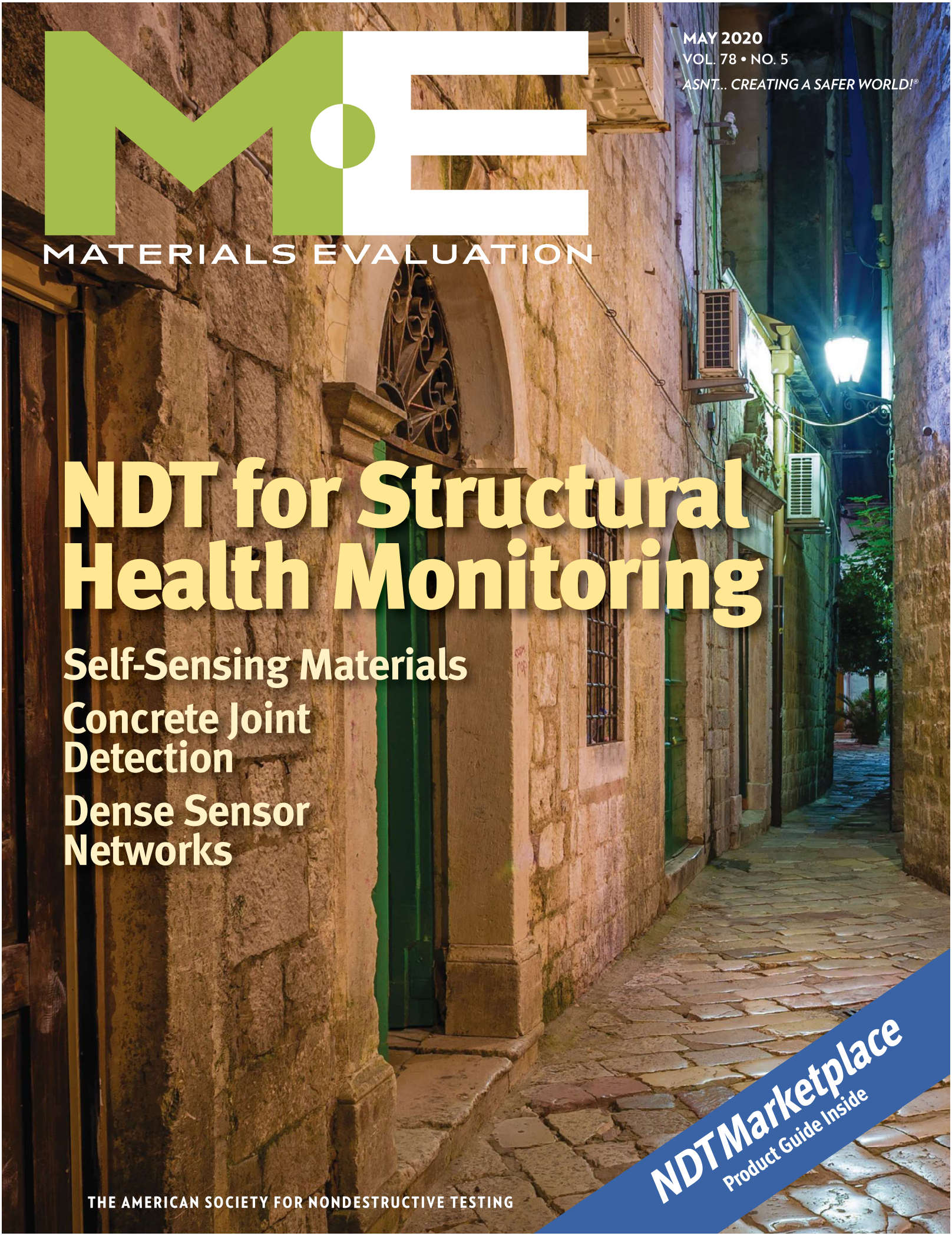
ASNT... CREATING A SAFER WORLD!®



NDT for Structural Health Monitoring

Self-Sensing Materials

Concrete Joint Detection

Dense Sensor Networks

NDT Marketplace
Product Guide Inside

THE AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING

NEW media

Industrial Radiography and Radiograph Interpretation Handbook

Jacques Enterprise Inspection Inc. and EQIP Plus have published *A Practical Field Handbook in Industrial Radiography & Radiograph Interpretation* by George W. Jaques and Aziz U. Rehman, Ph.D. The handbook covers all levels of inspector competencies, and is configured by taking into consideration all aspects of field industrial radiography (including education and training, qualification and competency, techniques development and application, and code compliance and interpretation). The handbook also presents advancements in industrial radiography.

The handbook contains more than 100 figures, graphs, and illustrations, nearly 100 tables, over 100 industrial radiography techniques with close to 200 radiographs fully interpreted in compliance with industrial codes, and more than 400 certification questions with numerous calculus examples. It covers in detail the subjects of radiographic film viewing coupled with industrial radiography application techniques and radiograph evaluation and interpretation aligned with prevalent industrial radiography codes and standards. The handbook provides readers with some basic understanding in radiation safety; however, the main emphasis is to guide the users in correct application of industrial radiography.
rtfipro.com

Advanced Techniques for Testing of Cement-Based Materials

Springer has published *Advanced Techniques for Testing of Cement-Based Materials*, edited by Marijana Serdar, Ivan Gabrijel, Dirk Schlicke, Stéphanie Staquet, and Miguel Azenha. The book examines advanced, nonstandardized techniques that have been developed for determining different properties of cement paste, mortar, and concrete, and provides state-of-the-art information on techniques for monitoring hydration-induced changes in cement-based materials (CBMs). These techniques are often nondestructive and allow quasi-continuous monitoring, covering the time span from placement of the material to formation of a fully hardened cement composite. The book also presents various applications of acoustic emission for characterizing fresh concrete, recent developments in ultrasonic methods for characterizing CBMs after placement, application of ambient response techniques for measuring elastic modulus, techniques for determining deformational characteristics of CBMs since setting, and techniques for in situ measurements of stresses in concrete elements during hardening.
springer.com

2020 Structural Welding Code for Steel

The American Welding Society has published *AWS D1.1/D1.1M:2020, An American National Standard, Structural Welding Code – Steel*. This code covers the welding requirements for any type of welded structure made from the commonly used carbon and low-alloy constructional steels. Clauses 1 through 11 constitute a body of rules for the regulation of welding in steel construction. There are eight normative and eleven informative annexes in this code. A commentary of the code is included with the document.
pubs.aws.org

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