

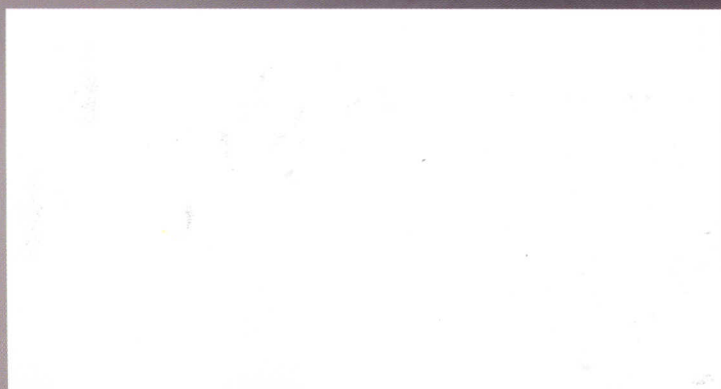
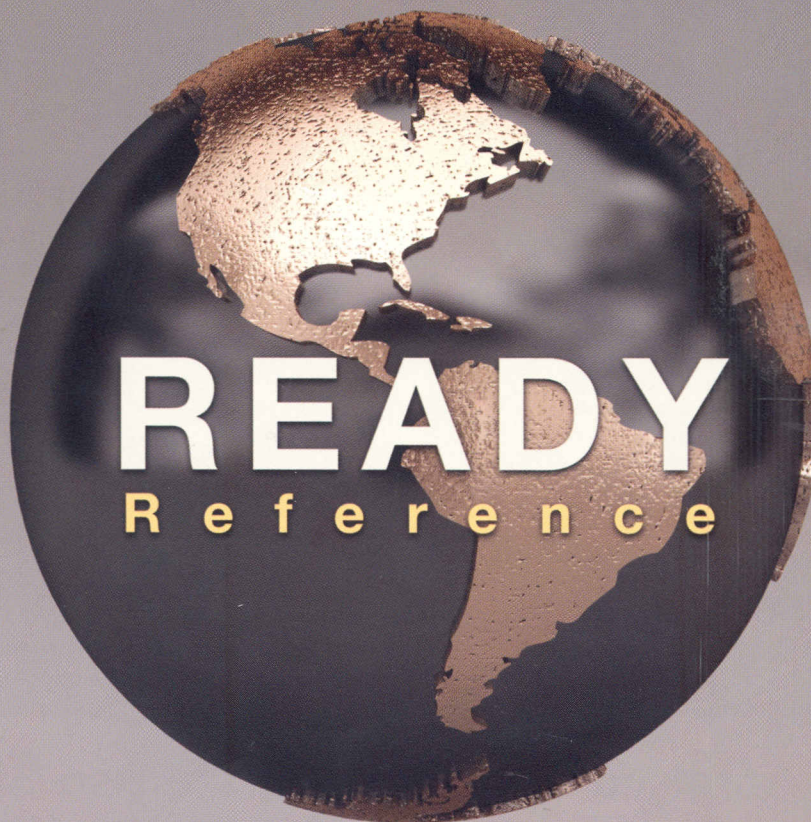
ME

MATERIALS EVALUATION

FEBRUARY 2011

VOL. 69 • NO. 2

PROMOTING THE PROFESSION
AND TECHNOLOGIES OF NDT



THE AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING

NDT Buyers Guide
Information Inside

FEATURES

164 Light Test

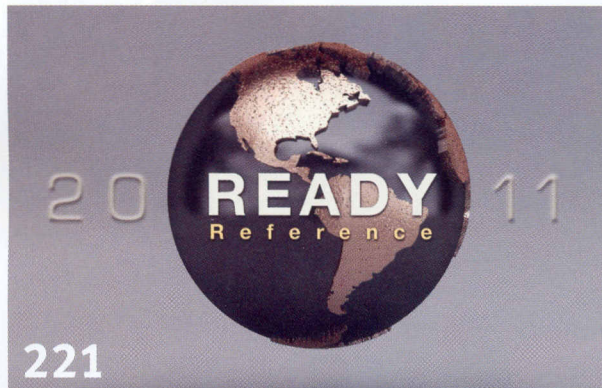
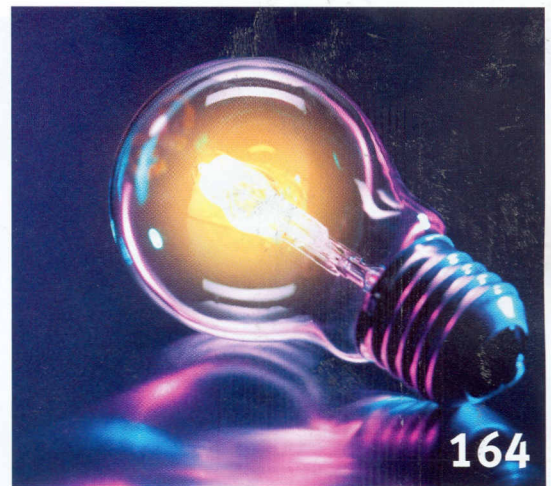
Proper Use of Light During Testing

H. Allen Sanders

168 Concrete Testing

Ultrasonic Characterization of Curling and Warping in Concrete

Ronald B. Then



SPECIAL SECTION

221 Ready Reference

221 Table of Contents

222 Ready Reference Guide

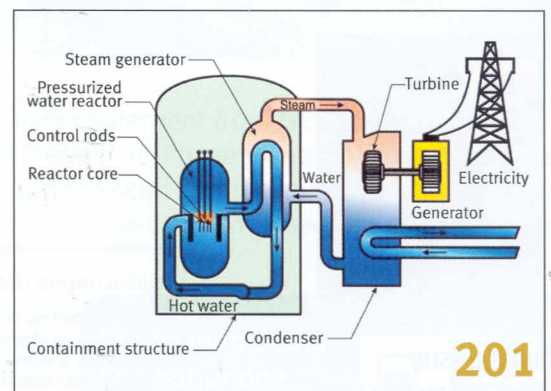
TECHNICAL PAPERS

201 Automated Data Analysis System for Steam Generator Tube Inspection

S. Majumdar, S. Ramakrishnan, P. Ramuhalli, L. Udpa, S. Udpa, J. Benson, R. Williams and T. U. Bipes

208 Reflectivity Estimation using an Expectation Maximization Algorithm for Ultrasonic Testing of Adhesive Bonds

Mehdi Hajian and Farhang Honarvar



ME departments

ASNT SCOPE

- 138 Section News
- 139 Society Notes
- 146 People
- 147 Awards and Honors
- 148 In Memoriam
- 149 New ASNT Certificate Holders
- 150 Wrap-up
- 154 Position Paper
ASNT Position Paper on NDT Personnel Certification
- 155 Certification News
ASNT Certification Examinations

PERSPECTIVE

- 137 Presidents Letter
"Who decides whether someone is qualified to do NDT work?"

WHAT'S NEW

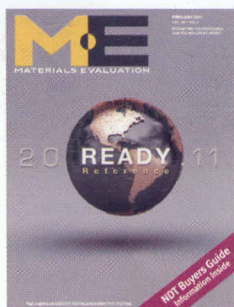
- 174 Product Gallery
175 Spotlight: Data Acquisition and Recording
- 179 Industry News
NIST Backs Proposal for a Revamped System of Measurement Units, Etegent Technologies Receives Air Force Contract to Develop NDT Data Management System
- 183 New Media
Shimadzu Technical Report on Simultaneous ESI/APCI Measurement, Fuzzy Multicriteria Decision-Making: Models, Methods and Applications
- 184 New Patents



175

RESOURCES

- 158 Exam Schedule
- 160 ASNT 20th Annual Research Symposium & Spring Conference
- 173 Buyers Guide Information
- 178 Contact ASNT
- 186 Corporate Partners
- 191 Calendar
- 315 Employment Service
- 315 Service Directory
- 324 Coming Attractions
- 324 Ad Index



IN THIS ISSUE

2011 READY REFERENCE

Subscription Questions?

ASNT membership includes a one-year subscription to *Materials Evaluation*. Institutions, or others who wish to have a subscription without becoming an ASNT member, may simply subscribe to the journal through ASNT. To become a member or subscribe to the journal, contact ASNT at (800) 222-2768 or see www.asnt.org/membership/membership.htm.

Back Issues & Article Copies

Back issues of *Materials Evaluation* are available for purchase. See www.asnt.org/shop/periodicals.ihtml for details, or call (800) 222-2768. Copies of individual articles may also be obtained through ASNT: contact the librarian at (800) 222-2768 for more information.

Comments & Suggestions

Letters to the editor are welcome at any time. Letters that are timely and significant may be published in an issue of *Materials Evaluation*. Not all letters are suitable for publication, and ASNT makes no claim regarding publication of a given letter. Letters should be sent to Editor Carly Williams at cwilliams@asnt.org.