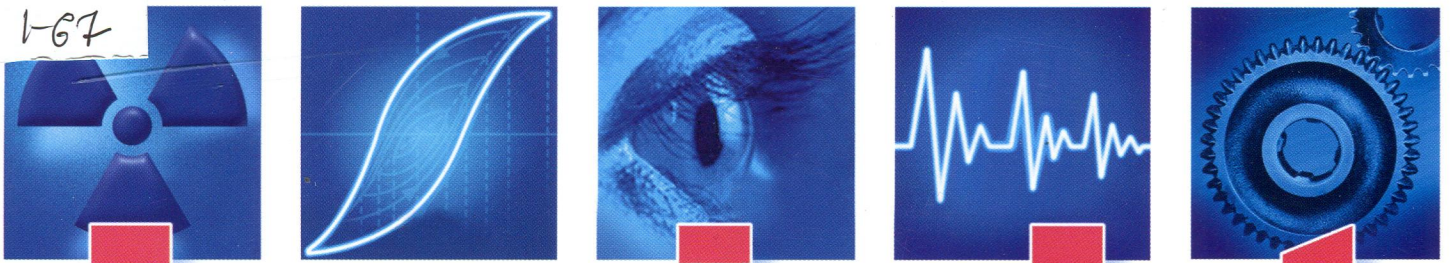


TU
1-67

Volume 56 Number 2



Insight

Non-Destructive Testing and Condition Monitoring

February 2014



Published by:
 The British Institute of Non-Destructive Testing
 Newton Building, St George's Avenue
 Northampton NN2 6JB, UK
 Tel: +44 (0)1604 89 3811;
 Fax: +44 (0)1604 89 3861;
 E-mail: info@bindt.org; Website: www.bindt.org

Comment, *by Dr W E Gardner* 54

NEWSDESK: Thermal imaging optimises aluminium production; Schaeffler
 opens new acoustic testing facility 56

Institute News 60

FEATURES

Positional footprint characterisation of truck tyres on flexible orthotropic steel
 bridge decks,
by W De Corte 63

A study of metal artefact reduction for industrial X-ray CT system with
 limited radiation energy,
by Wei Yu, Li Zeng and Xiangyu Yang 69

Multiple virtual source aperture imaging for non-destructive testing,
by M Sutcliffe, P Charlton and M Weston 75

A method of determining the eddy current instrument response from models,
by S Majidnia, C Schneider, J Rudlin and R Nilavalan 82

Quality control of cladding in hydrocracking reactors: applicable procedures and
 acceptance criteria,
by G Zappavigna 87

COVER



This month's front cover shows the inspection of a weld on a structural pipe by a rope access inspector with the Mentor EM eddy current system. The inspector is scanning the weld for surface-breaking cracks with a WeldScan probe, while viewing the inspection results on the Mentor EM. Any questionable indications can be sent immediately via Wi-Fi to an NDT expert. The ease-of-use, custom interface and portability of the Mentor EM allows easy transport to the inspection area, even while repelling or climbing, with rapid set-up and inspection once the inspector is on-site. *Image courtesy CanUSA Harvey, LA, USA.*

GE Measurement & Control
www.ge-mcs.com

REGULAR FEATURES

International Diary 96

NDT Info 101

Product Showcase 109

Associate Members/Index to Advertisers 112