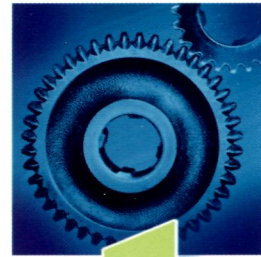
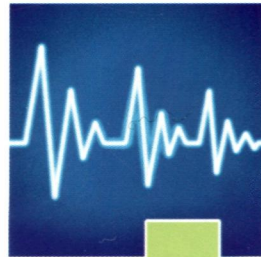
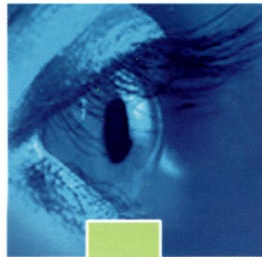
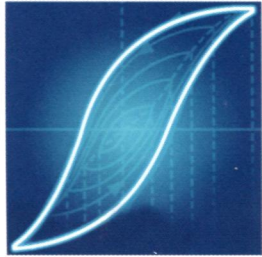
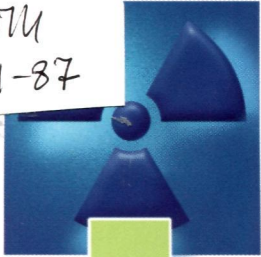


MU
1-87



Insight

Non-Destructive Testing and Condition Monitoring

September 2014



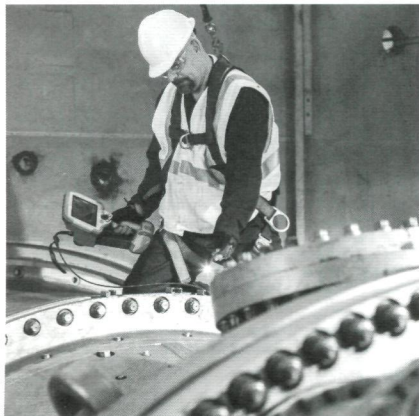
Published by:
The British Institute of Non-Destructive Testing
Newton Building, St George's Avenue
Northampton NN2 6JB, UK
Tel: +44 (0)1604 89 3811
Fax: +44 (0)1604 89 3861
E-mail: info@bindt.org; Website: www.bindt.org

European issues of Insight are published by The British Institute of Non-Destructive Testing with the support of The European Federation for Non-Destructive Testing and the cooperation of individual European NDT Societies

EF European Federation for
Non-Destructive Testing
NDT

EFNDT SECRETARIAT
BINDT
Newton Building, St George's Avenue
Northampton NN2 6JB, UK
Tel: +44 (0)1604 89 3811
Fax: +44 (0)1604 89 3861
E-mail: efndt@bindt.org
Website: www.efndt.org

COVER



This month, GE launches the Mentor Visual iQ VideoProbe™, a portable, rugged and lightweight video borescope with state-of-the-art 3D phase measurement and analysis capability, for improved probability of detection (POD). The Mentor Visual iQ comes equipped with an intuitive touchscreen interface and Wi-Fi capability to enable real-time collaboration.

GE Measurement & Control
www.ge-mcs.com



Insight

Volume 56 Number 9

September 2014

Comment, by <i>Dr I Baillie</i>	466
NEWSDESK: Innovative robotic weld inspection system uses laser profile sensors; High-voltage computed tomography system advances inspection of automotive turbochargers.....	469
INDUSTRY REPORT: Landscape report demonstrates importance of NDT to the UK economy	473

SPECIAL FEATURE: ADVANCED ULTRASONICS

Non-stationary phase shift migration for flaw detection in objects with lateral velocity variations, <i>by T Lukomski</i>	477
Effect of surface machine roughness on detectability of sub-millimetre reflectors in polycrystalline materials using ultrasonic immersion testing, <i>by A Leybovich and A Smith</i>	483
Ultrasonic broadband time-reversal with multiple signal classification imaging using full matrix capture, <i>by Chengguang Fan, Mengchun Pan and Feilu Luo</i>	487
Obtaining geometries of real cracks and using an efficient finite element method to simulate their ultrasonic array response, <i>by M V Felice, A Velichko, P D Wilcox, T Barden and T Dunhill</i>	492
A two-dimensional fast Fourier transform using incremented frequency measurement for guided wave analysis, <i>by S Fateri, N V Boulgouris and A Wilkinson</i>	499
Finite element modelling of the interaction of ultrasonic guided waves with coupled piezoelectric transducers, <i>by P S Lowe, S Fateri, R Sanderson and N V Boulgouris</i>	505

FEATURE

Institute Medals and Awards Winners 2013.....	510
---	-----

REGULAR FEATURES

International Diary	513
NDT Info.....	517
Product Showcase	525
Associate Members/Index to Advertisers	528

Федеральное государственное
бюджетное учреждение науки
Центральная научная библиотека
Уральского отделения
Российской академии наук (ЦНБ УрО РАН)