

Emerging Technologies in NDT



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Non-destructive testing (NDT) is a general task pertinent to nearly every field of human activity from the assuring of aircraft integrity to the evaluation of infrastructural decay caused by deterioration or damage. The development of non-destructive methods for quality management results in economic and environmental benefits, in an increase in product reliability, and in improved public safety and security. This book is the fourth proceedings volume and includes over fifty edited papers that were presented during the 4th International Conference "Emerging Technologies in NDT", which was held in Stuttgart from 2 to 4 , 2007. This event brought together a truly international group of scientists and practitioners to discuss the progress that was made in this important field during the last four years. As a result this volume covers the whole spectrum of cutting-edge NDT methods, including optical, acoustic, ultrasonic, and electromagnetic techniques, tomography, radiography, and thermography. It is a unique collection of papers dealing with innovative developments of NDT methodologies and new applications of mature inspection technologies. This publication is of particular interest to a wide NDT community, including scientists, engineers, practitioners, and quality assurance managers involved in the study, testing and maintenance of machinery, products and components in laboratory and industrial environments. It will also form helpful background reading for academics and lecturers and will inspire PhD-students specialising in mechanical engineering, material science, aerospace and adjacent scientific and engineering fields for further research in NDT.

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