

# Nondestructive Testing Handbook Third Edition

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Review of Progress in Quantitative Nondestructive Evaluation Donald O. Thompson 1994-05-31 Proceedings of the Thirteenth Symposium on Quantitative Nondestructive Evaluation held in Brunswick, Maine, August 1-6, 1993

Nondestructive Testing Handbook 1998

Radiographic Testing R. H. Bossi 2002 This is the fourth volume in a new edition of a handbook for college seniors and above that combines essential information on traditional penetrating radiation non-destructive testing techniques as well as incoming digital technologies. The 22 chapters include much new material, particularly in the area of digital imaging, data processing, digital image reconstruction, backscatter imaging and computed tomography. Topics include radiation and particle physics, electronic and isotope radiation sources, radioscopy, digital radiographic imaging, applications, image data analysis, radiation measurement and safety, attenuation coefficients, radiographic testing of metal castings and welds, neutron radiography, and radiographic filming, interpretation, and film development. Contains an extensive glossary and many b&w illustrations and charts. Annotation copyrighted by Book News, Inc., Portland, OR

Materials Evaluation 2005

Non-Destructive Evaluation (NDE) of Polymer Matrix Composites Vistasp M. Karbhari 2013-06-30 The increased use of polymer matrix composites in structural applications has led to the growing need for a very high level of quality control and testing of products to ensure and monitor performance over time. Non-destructive evaluation (NDE) of polymer matrix composites explores a range of NDE techniques and the use of these techniques in a variety of application areas. Part one provides an overview of a range of NDE and NDT techniques including eddy current testing, shearography, ultrasonics, acoustic emission, and dielectrics. Part two highlights the use of NDE techniques for adhesively bonded applications. Part three focuses on NDE techniques for aerospace applications including the evaluation of aerospace composites for impact damage and flaw characterisation. Finally, the use of traditional and emerging NDE techniques in civil and marine applications is explored in part four. With its distinguished editor and international team of expert contributors, Non-destructive evaluation (NDE) of polymer

matrix composites is a technical resource for researchers and engineers using polymer matrix composites, professionals requiring an understanding of non-destructive evaluation techniques, and academics interested in this field. Explores a range of NDE and NDT techniques and considers future trends Examines in detail NDE techniques for adhesively bonded applications Discusses NDE techniques in aerospace applications including detecting impact damage, ultrasonic techniques and structural health monitoring Emerging Technologies in Non-Destructive Testing V Alkiviadis S. Paipetis 2012-01-26 Non-destructive evaluation (NDE) methods have dominated most of the fields of applied research and technology over the last twenty years. These techniques provide information on the functional efficiency of materials and structures without causing any structural impact on the structure itself. Their use enables the monitoring of the structural inte

Wutz Handbuch Vakuumtechnik Karl Jousten 2009-11-17 Wutz Handbuch Vakuumtechnik Dieses Standardwerk gibt dem Leser umfassend Auskunft über Theorie und Praxis der Vakuumtechnik. Eine große Anzahl von numerischen Beispielen sowie aussagekräftigen Abbildungen erläutert und visualisiert überzeugend die theoretischen Sachverhalte. Die vorliegende Auflage enthält ein neues Kapitel zur numerischen Berechnung von stationären Gasflüssen verdünnter Gase. Die Kapitel zur Gasreibung, zum Wärmetransport und zum Abpumpen von Dämpfen wurden stark überarbeitet. Der Inhalt Geschichte der Vakuumphysik und -technik - Gasgesetze und kinetische Gastheorie - Strömungsvorgänge - Analytische und numerische Berechnungen von stationären Flüssen verdünnter Gase - Sorption und Desorption - Verdrängerpumpen - Kondensatoren - Treibmittelpumpen - Molekular- und Turbomolekularpumpen - Sorptionspumpen - Kryotechnik und Kryopumpen - Totaldruckmessgeräte - Partialdruckmessgeräte und Lecksucher - Werkstoffe - Bauelemente - Arbeits- und Lecksuchtechniken Die Zielgruppen Hersteller von Vakuumpumpen, -anlagen und -komponenten Praktiker und Ingenieure, die sich mit Fragestellungen zur Vakuumtechnik beschäftigen Studierende der Physik, Physikalischen Technik, Feinwerktechnik, Beschichtungstechnik, Verfahrenstechnik, Medizintechnik, Chemie und Biologie Der Herausgeber Dr. Karl Jousten ist Leiter des Vakuumesstechnischen Labors an der Physikalisch-Technischen Bundesanstalt (PTB) in Berlin und war von 2005 bis 2008 Präsident der Deutschen Vakuumgesellschaft.

Testing of Concrete in Structures, Third Edition J.H. Bungey 2010-09-03 This book provides a comprehensive overview of the techniques involved in testing concrete in structures. The non-specialist civil engineer involved in assessment, repair or maintenance of concrete structures will find this a thorough update of the second edition, with an expansion of those areas where recent developments have made significant advances, for example in integrity assessment.

The Winning Line Andrew E. Samuel 2007-05-26 This book provides a unique source for expert witnesses and underwriters in engineering litigation of a range of case examples that can be used to plan their future litigation. It will help them develop their own winning lines of arguments. The examples are based on the author's 30-year experience in engineering litigation. Students in forensic engineering and risk engineering will find the book an ideal introduction to the subject.

Acoustic Emission Testing Ronnie K. Miller 2005

MATERIALS SCIENCE AND ENGINEERING -Volume III Rees D. Rawlings 2009-12-05 Materials Science and Engineering theme is a component of Encyclopedia of Physical Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. Materials Science and Engineering is concerned with the development and selection of the best possible material for a particular engineering task and the determination of the most effective method of producing the materials and the component. The Theme with contributions from distinguished experts in the field, discusses Materials Science

and Engineering. In this theme the history of materials is traced and the concept of structure (atomic structure, microstructure and defect structure) and its relationship to properties developed. The theme is structured in five main topics: Materials Science and Engineering; Optimization of Materials Properties; Structural and Functional Materials; Materials Processing and Manufacturing Technologies; Detection of Defects and Assessment of Serviceability; Materials of the Future, which are then expanded into multiple subtopics, each as a chapter. These three volumes are aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers and NGOs

Infrared Thermography Recent Advances and Future Trends Carosena Meola 2012-08-03 Infrared thermography (IRT) is a non-contact, non-invasive methodology which allows for detection of thermal energy that is radiated from objects in the infrared band of the electromagnetic spectrum, for conversion of such energy into a visible image (such as a surface temperature map). This feature represents a great potential to be exploited in a vast variety of fields from aerospace to civil engineering, to medicine, to agriculture, etc. However, IRT is still not adequately enclosed in industrial instrumentation and there are still potential users who might benefit from the use of such a technique and who are not aware of their existence. This e-book conveys information about basic IRT theory, infrared detectors, signal digitalization and applications of infrared thermography in many fields such as medicine, foodstuff conservation, fluid-dynamics, architecture, anthropology, condition monitoring, non destructive testing and evaluation of materials and structures. The volume promotes an exchange of information between the academic world and industry, and shares methodologies which were independently developed and applied in specific disciplines.

Handbook of Nondestructive Evaluation, 3E Chuck Hellier 2020-02-25 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. A fully updated guide to nondestructive product testing practices and standards This up-to-date resource covers the latest methods for examining materials without destroying them or altering their structure. The book offers comprehensive details on the background, benefits, limitations, and applications of each technique. You will discover how to perform effective tests, interpret results, and formulate accurate decisions based on your findings. Ideal both as a textbook and as a study guide for the ASNT certification exam, this book clearly discusses visual, ultrasonic, and thermal infrared testing—and much more. Handbook of Nondestructive Evaluation, Third Edition, covers: • Discontinuities?origins and classification • Visual testing • Penetrant testing • Magnetic particle testing • Radiographic testing • Ultrasonic testing • Eddy current testing • Thermal infrared testing • Acoustic emission testing • Digital radiography • Ultrasonic phased array testing • Ultrasonic guided wave inspection • Shearography nondestructive testing

Aeronautical Applications of Non-destructive Testing Abbas Fahr 2013-12-05 Comprehensive guide to the basic principles and applications of non-destructive testing methods for aircraft system and components: airframe, propulsion, landing gear and more Provides detailed analysis of the advantages and disadvantages of major NDT methods Important for design, inspection, maintenance, repair, corrosion protection and safety This critical book is among the first to provide a detailed assessment of non-destructive testing methods for the many materials and thousands of parts in aircraft. It describes a wide variety of NDT techniques and explains their application in the evaluation and inspection of aerospace materials and components ranging from the entire airframe to systems and subsystems. At the same time the book offers guidance on the information derived from each NDT method and its relation to aircraft design, repair, maintenance and overall safety. The book covers basic principles, as well as practical details of instrumentation, procedures and operational results with a full discussion of each method's capabilities and limitations as these pertain to aircraft inspection and different types of materials, e.g., composites and metal alloys.

Technologies covered include: optical and enhanced optical methods; liquid penetrant, replication and magnetic particle inspection; electromagnetic and eddy current approaches; acoustics and ultrasonic techniques; infrared thermal imaging; and radiographic methods. A final section is devoted to NDT reliability and ways the probability of detection can be measured to establish inspection intervals.

Gaseous Hydrogen Embrittlement of Materials in Energy Technologies Richard P Gangloff 2012-01-16 Many modern energy systems are reliant on the production, transportation, storage, and use of gaseous hydrogen. The safety, durability, performance and economic operation of these systems is challenged by operating-cycle dependent degradation by hydrogen of otherwise high performance materials. This important two-volume work provides a comprehensive and authoritative overview of the latest research into managing hydrogen embrittlement in energy technologies. Volume 1 is divided into three parts, the first of which provides an overview of the hydrogen embrittlement problem in specific technologies including petrochemical refining, automotive hydrogen tanks, nuclear waste disposal and power systems, and H2 storage and distribution facilities. Part two then examines modern methods of characterization and analysis of hydrogen damage and part three focuses on the hydrogen degradation of various alloy classes With its distinguished editors and international team of expert contributors, Volume 1 of Gaseous hydrogen embrittlement of materials in energy technologies is an invaluable reference tool for engineers, designers, materials scientists, and solid mechanics working with safety-critical components fabricated from high performance materials required to operate in severe environments based on hydrogen. Impacted technologies include aerospace, petrochemical refining, gas transmission, power generation and transportation. Summarises the wealth of recent research on understanding and dealing with the safety, durability, performance and economic operation of using gaseous hydrogen at high pressure Reviews how hydrogen embrittlement affects particular sectors such as the petrochemicals, automotive and nuclear industries Discusses how hydrogen embrittlement can be characterised and its effects on particular alloy classes

Intelligente Röntgenbildanalyse zur zerstörungsfreien Prüfung von sicherheitsrelevanten Gußteilen Frank Herold 2006

Smart Composites Rani Elhajjar 2013-12-14 Smart Composites: Mechanics and Design addresses the current progress in the mechanics and design of smart composites and multifunctional structures. Divided into three parts, it covers characterization of properties, analyses, and design of various advanced composite material systems with an emphasis on the coupled mechanical and non-mechanical be

Integrated Imaging and Vision Techniques for Industrial Inspection Zheng Liu 2015-09-24 This pioneering text/reference presents a detailed focus on the use of machine vision techniques in industrial inspection applications. An internationally renowned selection of experts provide insights on a range of inspection tasks, drawn from their cutting-edge work in academia and industry, covering practical issues of vision system integration for real-world applications. Topics and features: presents a comprehensive review of state-of-the-art hardware and software tools for machine vision, and the evolution of algorithms for industrial inspection; includes in-depth descriptions of advanced inspection methodologies and machine vision technologies for specific needs; discusses the latest developments and future trends in imaging and vision techniques for industrial inspection tasks; provides a focus on imaging and vision system integration, implementation, and optimization; describes the pitfalls and barriers to developing successful inspection systems for smooth and efficient manufacturing process.

Ultrasonic and Advanced Methods for Nondestructive Testing and Material Characterization Chi-hau Chen 2007 Ultrasonic methods have been very popular in nondestructive testing and characterization of materials. This book deals with both industrial ultrasound and medical ultrasound. The advantages of ultrasound include flexibility, low cost, in-line operation, and providing data in both signal and image formats for further analysis. The book devotes 11 chapters to ultrasonic methods. However, ultrasonic methods can be much less effective with some applications.

So the book also has 14 chapters catering to other or advanced methods for nondestructive testing or material characterization. Topics like structural health monitoring, Terahertz methods, X-ray and thermography methods are presented. Besides different sensors for nondestructive testing, the book places much emphasis on signal/image processing and pattern recognition of the signals acquired.

Ultrasonic and Electromagnetic NDE for Structure and Material Characterization Tribikram Kundu 2016-04-19 Most books on nondestructive evaluation (NDE) focus either on the theoretical background or on advanced applications. Bridging the gap between the two, Ultrasonic and Electromagnetic NDE for Structure and Material Characterization: Engineering and Biomedical Applications brings together the principles, equations, and applications of ultrasonic and

Electromagnetic Nondestructive Evaluation (XIX) N. Yusa 2016-06-09 There have been many developments in the field of electromagnetic nondestructive evaluation in recent years, and it has become an increasingly valuable tool in many areas of industry, engineering and construction. This book presents selected papers from the 20th International workshop on Electromagnetic Nondestructive Evaluation (ENDE) held in Sendai, Japan, in September 2015. ENDE workshops aim to provide an international forum for discussion on the state-of-the-art and perspectives in the field of electromagnetic nondestructive methods from the point of view of science and technology, as well as their applications in industry and engineering, which have contributed to the development of nondestructive testing and evaluation techniques using electromagnetic fields. The book will be of interest to all those whose work involves the use or development of electromagnetic nondestructive evaluation techniques, in whatever field.

Measurement, Instrumentation, and Sensors Handbook, Second Edition John G. Webster 2014-01-29 The Second Edition of the bestselling Measurement, Instrumentation, and Sensors Handbook brings together all aspects of the design and implementation of measurement, instrumentation, and sensors. Reflecting the current state of the art, it describes the use of instruments and techniques for performing practical measurements in engineering, physics, chemistry, and the life sciences and discusses processing systems, automatic data acquisition, reduction and analysis, operation characteristics, accuracy, errors, calibrations, and the incorporation of standards for control purposes. Organized according to measurement problem, the Spatial, Mechanical, Thermal, and Radiation Measurement volume of the Second Edition: Contains contributions from field experts, new chapters, and updates to all 96 existing chapters Covers instrumentation and measurement concepts, spatial and mechanical variables, displacement, acoustics, flow and spot velocity, radiation, wireless sensors and instrumentation, and control and human factors A concise and useful reference for engineers, scientists, academic faculty, students, designers, managers, and industry professionals involved in instrumentation and measurement research and development, Measurement, Instrumentation, and Sensors Handbook, Second Edition: Spatial, Mechanical, Thermal, and Radiation Measurement provides readers with a greater understanding of advanced applications.

Advances in Engineering Materials and Applied Mechanics Guangde Zhang 2015-10-22 With the rapid development of Machinery, Materials Science and Engineering Application, discussion on new ideas related mechanical engineering and materials science arise. In this proceedings volume the author(s) are focussed on Machinery, Materials Science and Engineering Applications and other related topics. The Conference has pro

Non-Destructive Testing of Fibre-Reinforced Plastics Composites J. Summerscales 1990-09-30

Nondestructive Evaluation Don E. Bray 2018-10-03 Nondestructive evaluation (NDE) inspection schemes are important in design, manufacturing, and maintenance. By correctly applying techniques of NDE, we can reduce machine and system failures and increase reliability

of operating systems over an extended lifetime. Nondestructive Evaluation: A Tool in Design, Manufacturing, and Service introduces and discusses primary techniques used in the field, including ultrasonics, acoustic emission, magnetics, radiography, penetrants, and eddy currents. Examples of each of these techniques are included, demonstrating typical applications.

Electromagnetic Nondestructive Evaluation (XVII) K. Capova 2014-07-02 The demand for new and effective methods for the evaluation, maintenance and live-time testing of objects in fields as diverse as engineering, medicine and art, continues to grow. Electromagnetic non-destructive evaluation is a process by which an object can be assessed without permanent alteration by means of inducing electric currents or magnetic fields within the object and observing the electromagnetic response. This book presents selected papers from the 18th International Workshop on Electromagnetic Non-destructive Evaluation (ENDE), which was held in Bratislava, Slovak Republic, on June 25-28, 2013. The aim of the workshop was to provide an international forum for the discussion of the state-of-the-art and perspectives in the field from the view of science, technology and engineering. The book is divided into five main sections: advanced sensors; analytical and numerical modeling and biomedical applications; innovative industrial applications; new developments; and, solutions of inverse problems. Containing 40 peer-reviewed papers, it will be of interest to all those whose work involves electromagnetic non-destructive evaluation, whatever their discipline.

Emerging Technologies in Non-Destructive Testing VI Danny Van Hemelrijck 2015-11-24 Non-Destructive Testing (NDT) is of worldwide significance, and is strongly related to the detection of damage in engineering structures (buildings, bridges, aircrafts, ships, pressure vessels, etc.) using non-invasive techniques (ultrasound, X-rays, Radar, neutrons, thermography, vibrations, acoustic emission, etc.). Emerging Technologies in Non-D

Liquid Penetrant Testing Noel A. Tracy 1999 The handbook outlines the principles, equipment, materials maintenance, methodology, and interpretation skills necessary for liquid penetration testing. The third edition adds new sections on filtered particle testing of aerospace composites, quality control of down hole oil field tubular assemblies, and probability of detection, and considers new regulations on CFC fluids throughout the text. Annotation copyrighted by Book News, Inc., Portland, OR

Nondestructive Testing Overview Gary L. Workman 2012 "Drawing from the comprehensive set of third edition Handbook volumes, the NDT Overview is now available from ASNT. This volume is a must have for anyone studying for the general qualification exam and gives Level IIIs a convenient single volume reference on the principles and applications of the major NDT methods (VT, PT, MP, RT, AE, ET, LT, IR & UT). This volume also includes: an introduction on NDT, measurement units, history, and special methods which include alloy identification, strain measurement, shearography and holography." -- Publisher's website.

Nondestructive Testing Methods for Steel Bridges 1986

Electromagnetic Nondestructive Evaluation (XVI) J.M.A. Rebello 2013-12-18 Electromagnetic Nondestructive Evaluation (ENDE) is the process of inducing electric currents, magnetic fields or both within a test object to assess its condition by observing the electromagnetic response. An important tool in fields as diverse as engineering, medicine and art, it does not permanently alter the object being tested, thus proving invaluable for product evaluation, troubleshooting and research. This book presents the proceedings of the 17th International Workshop on Electromagnetic Nondestructive Evaluation (ENDE), held in Rio de Janeiro, Brazil, in July 2012. ENDE workshop is an important event for all scientists with interests in non-destructive testing. The first workshop took place in 1995 in London UK, and has been followed by workshops held in various parts of the world, but this is the first time this workshop series has come to a Latin American country. The workshops bring together scientists and engineers active in research, development and industrial applications of ENDE. The book is divided into five sections:

advanced sensors; analytical and numerical modeling; systems and techniques for electromagnetic NDE; characterization of materials and NDE of cracks; and new developments and others. Each section includes papers on a variety of subjects. From the papers submitted for publication, thirty six peer reviewed articles have been accepted, six of which emanate from Latin American authors. The book will be of interest to all those wishing to keep abreast of developments in the field, or who rely on the advanced techniques based on electromagnetic principles applied to nondestructive evaluation in their work.

Leak Testing Charles N. Jackson 1998-01-01

Introduction to Nondestructive Testing Paul E. Mix 2005-06-03 &quot;The Second Edition of this well-respected publication provides updated coverage of basic nondestructive testing (NDT) principles for currently recognized NDT methods. The book provides information to help students and NDT personnel qualify for Levels I, II, and III certification in the NDT methods of their choice. It is organized in accordance with the American Society for Nondestructive Testing (ASNT) Recommended Practice No. SNT-TC-1A (2001 Edition)."--BOOK JACKET.

X-Ray Imaging Harry E. Martz 2016-10-26 While books on the medical applications of x-ray imaging exist, there is not one currently available that focuses on industrial applications. Full of color images that show clear spectrometry and rich with applications, X-Ray Imaging fills the need for a comprehensive work on modern industrial x-ray imaging. It reviews the fundamental science of x-ray imaging and addresses equipment and system configuration. Useful to a broad range of radiation imaging practitioners, the book looks at the rapid development and deployment of digital x-ray imaging system.

Financial Justification of Nondestructive Testing Emmanuel P. Papadakis 2006-08-15 Finance is not, in general, a part of the curriculum for scientists, engineers, and even nondestructive testing (NDT) specialists. Therefore, justifying proposals for new methods and equipment that may seemingly add a modicum of cost to the production process can be problematic. Financial Justification of Nondestructive Testing not only explains ho

Pharmaceutical Dosage Forms Sandeep Nema 2010-08-26 Pharmaceutical Dosage Forms: Parenteral Medications explores the administration of medications through other than the enteral route. First published in 1984 (as two volumes) and then last revised in 1993, this three-volume set presents the plethora of changes in the science and considerable advances in the technology associated with these products

Experimental and Applied Mechanics, Volume 6 Tom Proulx 2011-05-27 Experimental and Applied Mechanics represents one of eight volumes of technical papers presented at the Society for Experimental Mechanics Annual Conference on Experimental and Applied Mechanics, held at Uncasville, Connecticut, June 13-16, 2011. The full set of proceedings also includes volumes on Dynamic Behavior of Materials, Mechanics of Biological Systems and Materials, Challenges in Mechanics of Time-Dependent Materials and Processes in Conventional and Multifunctional Materials, MEMS and Nanotechnology; Optical Measurements, Modeling and, Metrology; Experimental and Applied Mechanics, Thermomechanics and Infra-Red Imaging, and Engineering Applications of Residual Stress.

Civil Engineering and Urban Planning III Kouros Mohammadian 2014-07-23 Civil Engineering and Urban Planning III addresses civil engineering and urban planning issues associated with transportation and the environment. The contributions not only highlight current practices in these areas, but also pay attention to future research and applications, and provide an overview of the progress made in a wide variety of topics

Parenteral Medications, Fourth Edition Sandeep Nema 2019-08-08 Parenteral Medications is an authoritative, comprehensive reference work on the formulation and manufacturing of parenteral dosage forms, effectively balancing theoretical considerations with practical aspects of their

development. Previously published as a three-volume set, all volumes have been combined into one comprehensive publication that addresses the plethora of changes in the science and considerable advances in the technology associated with these products and routes of administration. Key Features: Provides a comprehensive reference work on the formulation and manufacturing of parenteral dosage forms Addresses changes in the science and advances in the technology associated with parenteral medications and routes of administration Includes 13 new chapters and updated chapters throughout Contains the contributors of leading researchers in the field of parenteral medications Uses full color detailed illustrations, enhancing the learning process The fourth edition not only reflects enhanced content in all the chapters but also highlights the rapidly advancing formulation, processing, manufacturing parenteral technology including advanced delivery and cell therapies. The book is divided into seven sections: Section 1 - Parenteral Drug Administration and Delivery Devices; Section 2 - Formulation Design and Development; Section 3 - Specialized Drug Delivery Systems; Section 4 - Primary Packaging and Container Closure Integrity; Section 5 - Facility Design and Environmental Control; Section 6 - Sterilization and Pharmaceutical Processing; Section 7 - Quality Testing and Regulatory Requirements

Handbook of Nondestructive Evaluation, 3E Chuck Hellier 2020-02-07 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. A fully updated guide to nondestructive product testing practices and standards This up-to-date resource covers the latest methods for examining materials without destroying them or altering their structure. The book offers comprehensive details on the background, benefits, limitations, and applications of each technique. You will discover how to perform effective tests, interpret results, and formulate accurate decisions based on your findings. Ideal both as a textbook and as a study guide for the ANST certification exam, this book clearly discusses visual, ultrasonic, and thermal infrared testing—and much more. Handbook of Nondestructive Evaluation, Third Edition, covers: [The first bullet point states the obvious: Like most books, this book introduces the subject of the book in Chapter 1. Therefore, I have deleted the bullet point. (Of course, this is just my opinion. If others disagree with me, feel free to ignore me.) • Discontinuities?origins and classification • Visual testing • Penetrant testing • Magnetic particle testing • Radiographic testing • Ultrasonic testing • Eddy current testing • Thermal infrared testing • Acoustic emission testing • Digital radiography • Ultrasonic phased array testing • Ultrasonic guided wave inspection • Shearography nondestructive testing