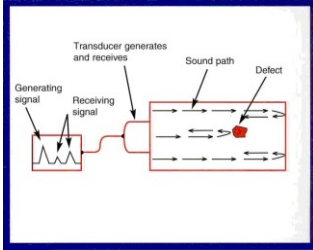


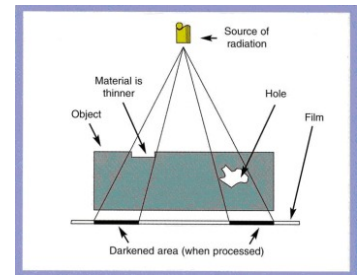
Ultrasonic Testing



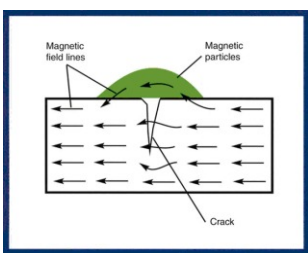
Scientific principles, Law of refraction, Tests on welded joints, Test technique, Methods to size the defects, Advanced ultrasonic testing technology, Defect detection with high sensitivity, Signal analysis and pattern recognition, Time of flight diffraction technique, Electromagnetic Acoustic Transducers Structure and design of EMATs, Main advantages, Disadvantages.

Radiographic Testing

Scientific principles, Radiations, Radiation reflected from surrounding objects X ray equipment. X-ray tube cathode, Film preparation, Analysis of the film densities, Indicative marks, Lion Indicative marks, False marks, Visibility of the defects, Gamma rays, Industrial X- ray films, Fillet welds, Fusion welds on pipes and cylindrical objects, Advances in radiography, High energy radiography, Main advantages, Disadvantages.



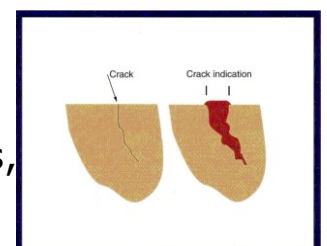
Magnetic Particle Testing



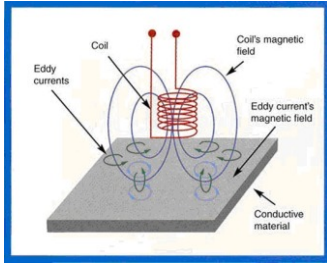
Scientific principles, Magnetic particle examination, Types of examination medium, Portable electromagnets, Detecting a discontinuity, Optimum induction level, Surface preparation, Visual inspection, Methods of demagnetization, Thermal method, AC circular field demagnetization, AC or DC yoke method, Main uses, Main advantages, Disadvantages.

Liquid Penetrate Testing

Scientific principles, Examination principle, Surface cleaning, Penetrate removal Selection of method and type of liquid, Procedure qualification, Non-standard examination conditions, Comparator block, Main uses, Main advantages Disadvantages.



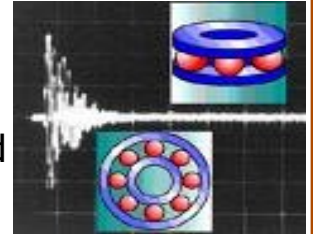
Eddy Current Testing



Instrumentation for ECT, Inspection of welds, Multi-frequency ECT, The 3 D phased array ECT, Remote field ECT, Magnetically biased eddy current, Flux leakage Eddy current imaging system, Imaging and characterization of defects, Detection of weld center line, Eddy current array instrumentation for fixed position scanning.

Acoustic Emission Technique

Principle of Acoustic emission testing, Technique, Advantages of AET for weld monitoring, Welding noise, Applications of AET for monitoring, Welding process TIG welding, Submerged arc welding, Electro slag welding, Electron beam welding, Laser spot welding, Resistance spot welding.



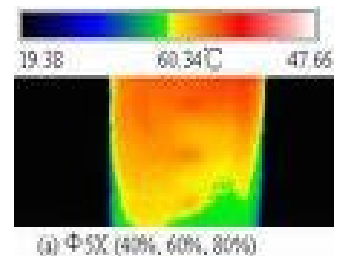
Leak Testing



Pressure tests, Methods of pressure leak detection, Bubble leak method, Ultrasonic leak detection, Thermal conductivity leak detector, Mass spectrometer leak detector, Testing of major tanks and vessels, Testing of large sized storage tank, Testing of secondary sodium piping system, Evacuation and testing.

Thermography Testing

Basic principle, Emissivity, Surroundings, Atmosphere, Detectors and equipments, Techniques, Applications.



Automation and Robots in NDT



Manipulator arm operation, Control system, Memory, Applications of Robots Robots in non-destructive evaluation, Developments of ultrasonic scanners/manipulators for inspection, Automatic/Semi-automatic ultrasonic testing for nuclear power plants, Remote operated vehicles.



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