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Indonesian Institute of  
Non Destructive Testing

# PCN PHASED ARRAY ULTRASONIC TESTING (PAUT) LEVEL 2

In collaboration with  
Argyll Ruane



## Why **Attend This Course?**

This programme provides detailed instructions on the inspection of ferritic welds products by the use of phased array ultrasonic testing. Suitable only for holders of current, valid UT certification approved and accepted by PCN.

This phased array training course is PCN recognised and provides excellent preparation for the Level 2 examinations. It meets in full the training hour requirements as specified by the relevant PCN documentation. The course utilises the latest phased array equipment.

## Course **Content**

- Principles of phased array probes
- Principles of inspection sensitivity
- Phased array instrumentation
- Scanning with phased array
- Calibration and checks
- Software for data collection
- Software familiarity
- Procedures for verification of flaw existence and position
- Use of software tools
- Data analysis

## Course **Details**

<b>Duration:</b>	12 Days
<b>Course Code:</b>	IINDT PAUT2
<b>Special Note:</b>	Candidates must hold current, valid UT certification and meet PCN/GEN requirements, including a minimum of 4 months of industrial experience, to attempt the PCN examination

**COURSE &  
EXAMINATION ENQUIRIES**



+62 811 6911 899



admin@iindt.com

# Level 2 Ultrasonic Phased Array Course Introduction

**P Mansfield**



## **Level 2 Ultrasonic Phased Array Course Introduction:**

**Industrial Ultrasonic Inspection: Levels 1 and 2** Ryan Chaplin, 2017-05-16 Ultrasonic testing UT has been an accepted practice of inspection in industrial environments for decades This book Industrial Ultrasonic Inspection is designed to meet and exceed ISO 9712 training requirements for Level 1 and Level 2 certification The material presented in this book will provide readers with all the basic knowledge of the theory behind elastic wave propagation and its uses with the use of easy to read text and clear pictorial descriptions Discussed UT concepts include General engineering materials and components theory Theory of sound waves and their propagation The general uses of ultrasonic waves Comprehensive lab section Methods of ultrasonic wave generation Different ultrasonic inspection techniques Ultrasonic flaw detectors scanning systems and probes Calibration fundamentals General scanning techniques Flaw sizing techniques Basic analysis for ultrasonic phased array ultrasonic and time of flight diffraction inspection techniques Codes and standards Principles of technical documentation and reporting It is my intention that this book is used for general training purposes It is the ideal classroom textbook Ryan Chaplin Materials Evaluation ,2006 Chinese Standard. GB; GB/T; GBT; JB; JB/T; YY; HJ; NB; HG; ... , **Applied Mechanics Reviews** ,1985 **NMR Imaging in Biomedicine** P Mansfield, 1982-04-28 NMR Imaging in Biomedicine Advances in Magnetic Resonance discusses significant advances in NMR imaging and its application to the field of biomedicine This book is organized into 10 chapters that cover the classification methods imaging regimes and the potential use of NMR imaging in medicine After discussing the basic theoretical ideas of NMR and its application to NMR imaging this book presents mathematical analyses of the various NMR techniques focusing primarily on the comparison in terms of imaging speed and data acquisition rate It also covers a number of practical ranges or imaging regimes in terms of sensitivity sample size and operating frequency Significant topics on potential application of NMR imaging in medicine apparatus requirements in the instrumentation of NMR imaging machines and the principles of biomagnetic effects are discussed in other chapters The considered biomagnetic effects are categorized into three main groups the effects of static magnetic fields the effects of relatively slow varying time dependent fields and radio frequency magnetic fields This book is of great value to radiologists medical physicists neuroradiologists anatomists physiologists and postgraduate students of NMR imaging Acoustical Physics ,2000 Russian academic journal in the field of acoustics The journal publishes scientific reviews original papers short communications letters to the editor and current events It covers theoretical and experimental aspects of physical technical and biological acoustics This journal presents results of research conducted at the institutes of the Russian Academy of Sciences and at universities and research establishments in Russia and abroad IEEE 1986 Ultrasonics Symposium ,1986 Cumulated Index Medicus ,1978 The Engineering Index Bioengineering Abstracts ,1987 Monthly Covers the world s technological literature in biomedical engineering and technology Alphabetical subject arrangement Entries give bibliographical information abstract and author s affiliation No name index Bioengineering

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## Adopting the Melody of Term: An Psychological Symphony within **Level 2 Ultrasonic Phased Array Course Introduction**

In some sort of consumed by screens and the ceaseless chatter of quick interaction, the melodic elegance and psychological symphony created by the published term frequently diminish in to the backdrop, eclipsed by the persistent sound and disruptions that permeate our lives. Nevertheless, located within the pages of **Level 2 Ultrasonic Phased Array Course Introduction** a stunning fictional value brimming with raw emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, this charming masterpiece conducts viewers on an emotional journey, well unraveling the concealed songs and profound affect resonating within each cautiously crafted phrase. Within the depths with this emotional evaluation, we shall examine the book is main harmonies, analyze its enthralling writing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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