

# Ultrasonic Phased Array- Level II

Specific Training: 80 hours

Training Course Outline

This Phased Array Level II training includes the Principles of ultrasonic Phased Array Principles. The module will also cover PAUT in use of Biotography. The prerequisites for this course is UT Level I.

## SCOPE

This course introduces the basic principles of ultrasonic phased arrays and provides the available use Phased Array for ultrasonic examinations. Training will include practical on phytotypes and industrial field.

This training is conducted over a two week period to meet the Level II Requirements of ASNT TC 1A.

PAUT Week 1 (40 hours):

Basic Principles of Phased Arrays and Manual PAUT

PAUT Week 2 (40 hours):

Encoded Scans, Omni-PC and Analyze.



Phased Array Level Training, Equipment provided by Chiracourt Inc. UT 100.

## REQUIREMENTS

Training is conducted in Modules.

Module PA1A: Phased Array Certification

Module PA 1B: Phased Array Physics

- Beam Profile of a Conventional Probe
- Area (Focal and Near) Gains
- Conventional Focusing
- Phased array Focusing using Time Delay
- Beam Steering and Element Size

Module PA2: Phased Array Technology

# Level 2 Ultrasonic Phased Array Course Introduction

**Camilla Rothe**



## **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; ...* , **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 *Applied Mechanics Reviews*, 1985 **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 Abstracts** ,1987     **Use of Services for Family Planning and Infertility, United States** Gerry E. Hendershot,Karl E. Bauman,1988     Process / Industrial Instruments and Controls Handbook, Sixth Edition  
Gregory K. McMillan,P. Hunter Vegas,2019-04-12 Extensive practical plant based knowledge to achieve the best automation system  
BACK COVER DESCRIPTION This fully updated on the job reference contains all the automation and control information you need to make timely decisions and maximize process capacity and efficiency Featuring contributions from 50 top technical experts  
Process Industrial Instruments and Controls Handbook Sixth Edition covers the latest technologies and advances More importantly the book helps you select the right instrumentation install and maintain it correctly and leverage it to maximize plant performance and profitability You will get all you need to know to execute a successful automation project including time saving tables lists of essential best practices and hundreds of topic defining illustrations Coverage includes  
Process variable measurements Analytical measurements Control Network communications Safety instrumented systems Control systems fundamentals PID control strategies Continuous and batch control Improving operator performance Improving process performance Project management And more     **Electrical & Electronics Abstracts** ,1997     **The 2002 Guide to the Evaluation of Educational Experiences in the Armed Services** American Council on Education,American Council on Education Staff,2005 Long considered to be the standard reference work in this area this three volume set describes more than 8 000 courses offered between January 1990 and the present by various service branches and the Department of Defense Long considered to be the standard reference work in this area this three volume set describes more than 8 000 courses offered between January 1990 and the present by various service branches and the Department of Defense     *Scientific and Technical Aerospace Reports* ,1980-03     **Instrument Practice for Process Control and Automation** ,1971     **1999 IEEE International Conference on Acoustics, Speech, and Signal Processing** ,1999     **Proceedings of the IEEE Workshop on Mathematical Methods in Biomedical Image Analysis** ,2001     Government Reports Announcements & Index ,1990-05     **Proceedings ICASSP (24, 1999, Phoenix, Ariz.)**,1999

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