

Near-field Antenna Measurement

Short Course

15 - 18 March 2011

Venue: Nearfield Systems, Inc.

19730 Magellan Drive, Torrance, CA 90502, USA (310) 525-7000 Fax: (310) 525-7100

Course Description

This course will cover theoretical and practical aspects of antenna near-field testing. The intended audience is engineers and technicians using and operating NSI near-field antenna test systems. Planar, cylindrical & spherical methods will be addressed. The course will contain theoretical presentations to provide a background for the near-field antenna technique. The course will focus on the practical aspects of near-field measurements and include demonstrations with a live test system. A spherical scanner with a full suite of NSI 2000 software will be available for demonstrations during this course.

The course will focus on the NSI product line in order to allow demonstration of various aspects of near-field testing and also to educate attendees on the efficient use of the various tools provided by NSI. A session on the use of the NSI 2000 scripting language will provide formal training on this capability of the software.

The presenters of this course have been chosen to provide a wide expertise base covering theory, application, software, and instrumentation aspects of near-field antenna testing.

Course Outline

Day 1 (9am - 5pm)

- Overview of near-field industry and applications
- Introductory antenna concepts (Gain, Directivity, Side lobe level, Beamwidth, etc.)
- Near-field vs. Far-field testing
- Anechoic chamber considerations
- Planar near-field theory
- Cylindrical near-field theory
- NSI 2000 Software

Day 2 (9am - 5pm)

- Planar, cylindrical, spherical system hardware overview
- Spherical near-field theory
- Antenna Measurement Demo I:
- Spherical near-field testing
- Back projection theory
- Measurement Errors

Day 3 (9am - 5pm)

- NSI 2000 Scripting
- Wireless handset testing
- OTA measurements
- RF system design & Pulsed Antenna Measurement
- Near-field Probe Correction

Day 4 (9am - 12pm)

- Advanced Antenna Measurement topics:
- MARS
- Phased array testing
- Back projection
- High speed testing
- Spherical near-field alignment
- Antenna Measurement Demo II:
- Spherical near-field alignment

Registration Form

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Course Presenters

NSI Staff including: Greg Hindman, Daniël Janse van Rensburg,
Allen Newell, Bert Schluper, Greg Masters & Stuart Gregson

Name:	
Title:	
Company:	
Address:	
Phone #:	
Fax #:	
E-Mail:	
PO# for course fee:	

Mail your check (payable to Nearfield Systems Inc.) or FAX your PO, or Visa/MC/AMEX information with a printed copy of the above Enrollment Application Form to:

Accounts Receivable
Nearfield Systems Inc.
19730 Magellan Drive
Torrance, CA 90502
tel: (310) 525 7000
fax: (310) 525 7102

Short Course Website: <http://www.nearfield.com/ShortCourses.htm>

Fee: \$1,850 per person: This fee will include lecture notes, a copy of the book "Near-field Antenna Measurements" by Dan Slater and classroom materials; it does not include lodging, or meals. Enrollment is limited.

Early enrollment is recommended.

Registration Deadline: 20 February 2011