



IEEE Microwave Theory and Techniques Society Washington DC/Northern VA Chapter

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Multiport Vector Network Analyzer

Prof. Andrea Ferrero, Torino, Italy

IEEE MTT-S Distinguished Microwave Lecturer

Date: Tuesday November 27th, 2012

Time: 5:30 Reception, Dinner (Optional) 6:00 pm, Lecture 7:00

Place: Mitre Building 2

Directions: http://www.mitre.org/about/locations/va_mclean_mitre2.html

Free parking.

All IEEE members and guests are welcome to attend.

Cost: Lecture and reception free, optional Dinner \$15

Please RSVP (Dinner only) to Tony Ivanov, 301-394-3568 or tgivanov@yahoo.com by November 23rd

Abstract:

With the recent digital systems and circuits outstanding increase in speed and complexity, multiport characterization at microwaves and millimeter waves is experiencing an impressive growth in demand and importance. Today the application of multiport techniques is shifting from typical microwave applications to signal integrity in computer technologies and digital applications.

The need of extreme high bandwidth push commercial applications deeply into the microwave field and this means low cost interconnections that can work in the gigabit range. These requirements pose serious challenges to the digital designers that are more and more approaching the microwave world. In this frame traditional microwave measurement techniques based on 2-port Network Analyzer evolves toward more complex multiport systems.

The talk will present the most modern solutions for multiport measurements at microwave frequencies as well as their advance calibration techniques.

In particular the following topics will be given with the focus on digital application:

- Single Ended and differential S parameters review
- VNA Architectur
- Error Models and Calibration Techniques
- Interconnection and Fixture design for digital applications measurements
- On Wafer design of multiport standards
- Microwave Board and Socket characterization

Speaker :

The eSCANNER
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ARFTG
Local Area IEEE Chapters AP/MTT (Baltimore) EDS GRSS IT Photonics WIE
Sponsors Mid-Atlantic Microwave Artech House Tektronix Agilent
Microwaves 101
Microwave Sites Around the World
Biography of J. C. Maxwell
Historical Electronics Museum (near BWI)
Mike Nueslein, Chair
Bruce Levine, Past-Chair
Joe Qiu, Treasurer
Tony Ivanov, Secretary
You are visitor #
since 09-07-04

Dr. Ferrero



New Local Chapter Administrative Committee members are needed. Really. If you are reading this sentence, then we need you to help us in the Chapter.

Join us in planning the next lecture series. Please volunteer... everyone has something to offer. The next administrative meeting will be held soon.

Please contact 2011-12 Chapter Chair Michael Nueslein mnueslein@mitre.org

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