

EMCoS Products Training

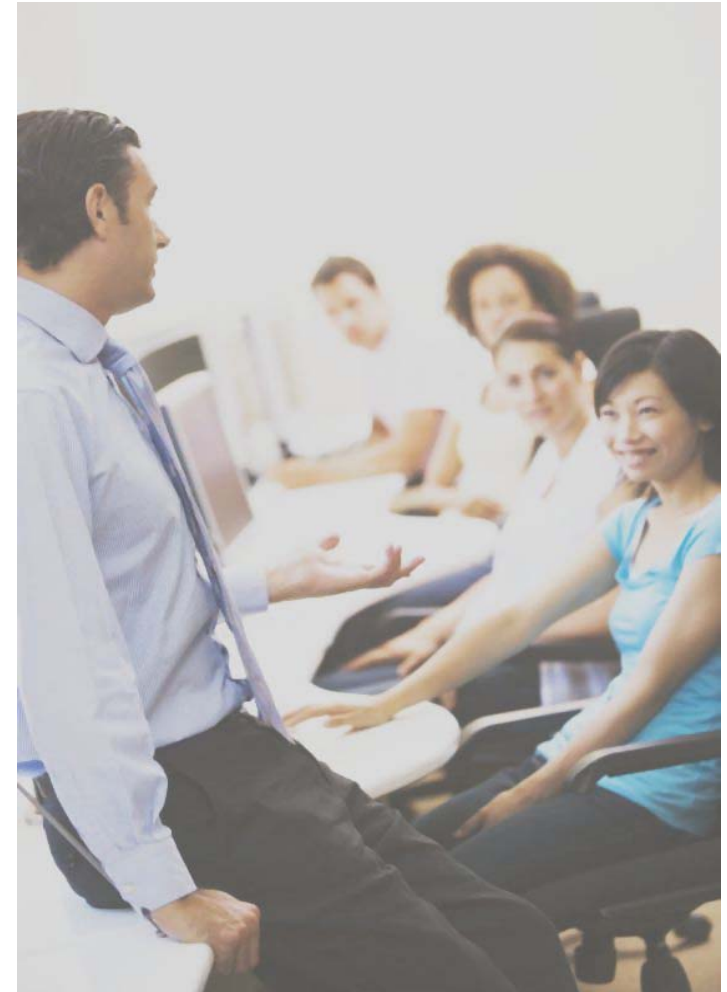


Karadeniz Technical University

25 - 27 October 2010

Trabzon, Turkey

- ✓ The purpose of the software training is to provide fastest and easiest way for scientists, researchers or students to learn about main features of the software and acquire the skills to use it effectively for their engineering applications



Objectives

- ✓ To introduce main features of the three EMCoS products: EMCoS Antenna VirtualLab, EMC Studio and Harness Studio
- ✓ To help users acquire the skills for modeling of their problems with the software
- ✓ Discuss topic of software application in user's area of interest



EMCoS Products Training. October 2010

Faculty Attendants

- ◆ 20 Students from Electrical and Electronic Engineering department
- ◆ Prof. Dr. Haydar Kaya
- ◆ Prof. Dr. İsmail Hakkı Çavdar
- ◆ Prof. Dr. Yasin Oğuz
- ◆ Res. Asst: Ayhan Yazgan and Zeynep Hasırcı

EMCoS Group

Ekaterina Yavolovskaya, Sophia Iosava,

Eliso Gogokhia, Nana Jobava, Temuri Injgia



Karadeniz Technical University
Electrical and Electronic Engineering Department

1. EMCoS Antenna VirtualLab (v1.0)

October 25. 2010

- Overall Presentation of EMCoS Company
- Introduction to EMCoS Antenna VirtualLab functions and applications
- Training – Solving antenna related problems
- Questions and discussions

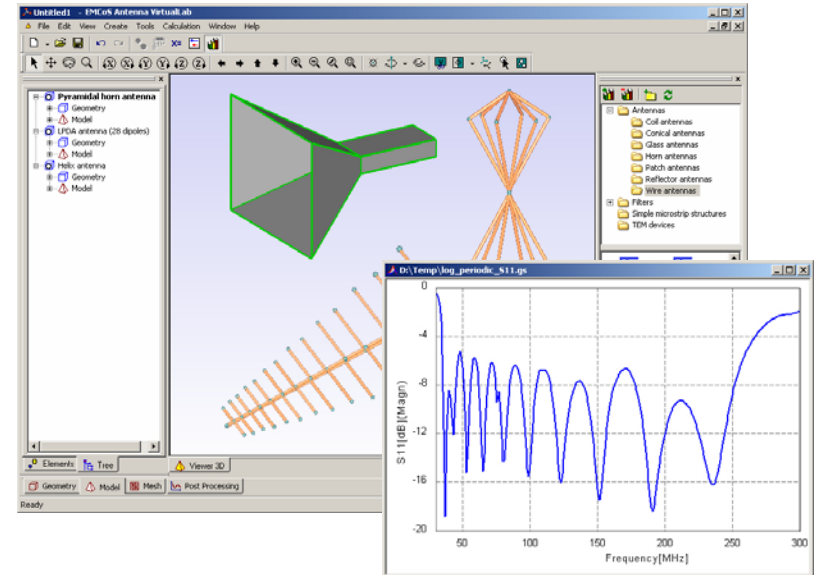


1. EMCoS Antenna VirtualLab

October 25. 2010

Modelling

- Dipole and Monopole antennas, Yagi Uda Antenna, Horn Antenna
- Antenna arrays
- Patch antennas on dielectric substrate
- Antenna feeding
- Antenna tuning



Demonstrated Features of Product

- Construction of metallic wire surface structures and dielectric areas
- Usage of models library
- Analysis of simulated data



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2. EMC Studio (v5.1)

October 26. 2010

- General presentation and introduction to software functions and applications
- Step by step training seminar
- Individual student work with assistance of EMCoS group
- Questions and discussions

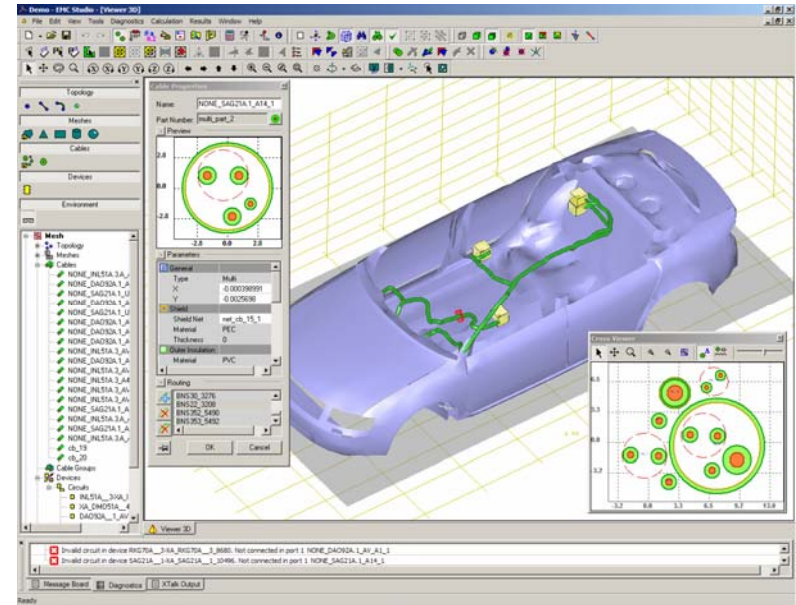


2. EMC Studio (v5.1)

October 26. 2010

Demonstrated Features of Product

- EMC Studio different modules
- Construction of cables in Hybrid module
- Usage of models library
- Analysis of simulated data



Modelling

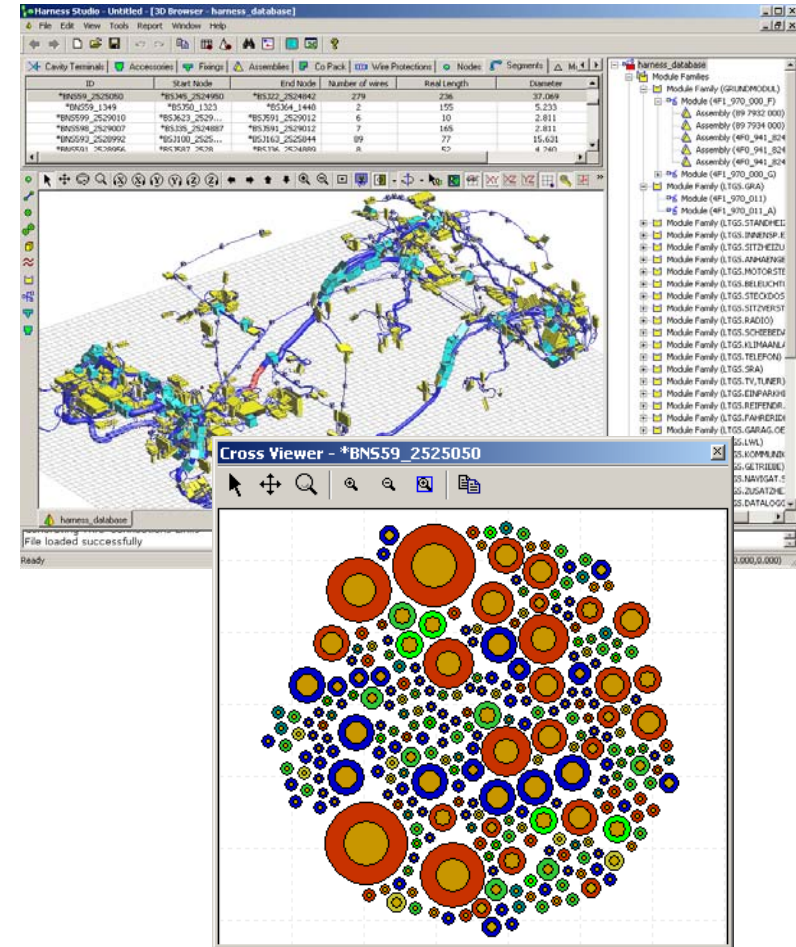
- Complex Cables
- Cable – Antenna Coupling



3. Harness Studio Family

October 27, 2010

- Presentation of general features
- Introduction to applications of products family
- Questions and discussions





Future Collaboration

EMCoS grants full version software package - EMCoS Antenna VirtualLab to Karadeniz Technical University for educational purposes, thus giving the students opportunity to take advantage of using this software for their research interests.

Further collaboration between EMCoS and Electrical and Electronic Engineering department of Karadeniz Technical University in the following areas can be established:

- Common publications and researches in field of antenna modeling
- Organization of further educational seminars/training



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