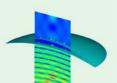


FEKO Workshop

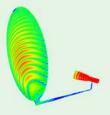


April 2, 2009, EMSS Building, Technopark, Stellenbosch, South Africa



ABOUT FEKO

FEKO is a suite of tools that is used for electromagnetic field analysis of 3D structures. FEKO simulations are based on the Method of Moments (MoM) approximation to Maxwell's equations and features several extensions to the MoM for the solution of complex problems, including large structures (MLFMM) and human tissue (FEM). Various output parameters can be computed and displayed in a number of formats to make FEKO a leading electromagnetic simulation software suite.



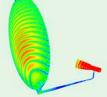
3D Antenna design

Applications

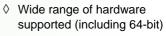
♦ True hybridisation (MoM

♦ Parallel processing

Special Features

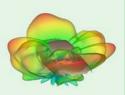


- Method of Moments (MoM), extended to a wide range of
 - ♦ Microstrip antennas (planar and conformal)
 - ♦ Microstrip circuits
 - ♦ Antenna placement
 - ♦ EMC analysis (including) complex cable harness)
 - ♦ Dielectric bodies (SAR)
 - ♦ Scattering analysis (RCS)
- ♦ Out-of-core solution (memory swapped from RAM to hard drive)



with FEM, PO, GO, UTD)

- ♦ Time domain data (TIMEFEKO manages the excitation pulse description and required FFT)
- Optimisation (fully specified in CADFEKO GUI)
- ♦ Adaptive Frequency Interpolation (AFS)





Physical Optics (PO)

(FEM)

Method (MLFMM)

Solution Methods

applications e.g. dielectric

structures, dielectric and

dielectric sheets, ground

plane reflections, periodic

magnetic coatings, thin

boundary conditions.

Multilevel Fast Multipole

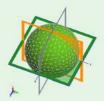
Finite Element Method

volumes, planar multilayered

- Geometrical Optics for dielectrics (GO)
- Uniform Theory of Diffraction (UTD)

EVENT INFORMATION

This workshop, which is scheduled for the same week as the South African IEEE AP/MTT Conference, will introduce participants to FEKO and its industrial applicability. Participants are welcome to suggest specific areas of interest to focus on during the workshop. Participants will have the opportunity to discuss their own electromagnetic simulation needs with the FEKO team.

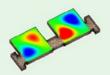


Attendees:

The workshop is open to attendees from industry, as well as academic staff from educational institutions.

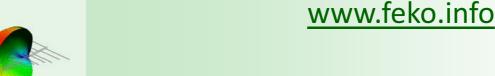


The deadline for registration is March 20, 2009. Please register at http://www.feko.info/events



Contact:

For more information, please contact FEKO_distributor@emss.co.za





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