



RSoft Releases Version 7.0 of its Passive Component Design Suite

Award Winning Passive Component Design Suite Incorporates Wide Array of New Functionality Including Non-Uniform Meshing

July 12, 2006 – Ossining, NY – RSoft Design Group, the worldwide leader in photonics design automation software, announced the upcoming release of Version 7.0 of its Passive Component Design Suite, which includes the products *BeamPROP*, *FullWAVE*, *BandSOLVE*, *GratingMOD*, *DiffractMOD*, *FemSIM*, and *MOST*. The new release includes advanced non-uniform mesh generation and incorporates significant speed and usability improvements. These additions and upgrades allow the suite to address a wide range of emerging optoelectronic applications.

The new features in Version 7.0 include improved mesh generation leading to more flexible CAD layout and greater simulation accuracy for all device design tools. This new mesh generation framework includes non-uniform mesh, which is enabled for the *BeamPROP*, *FullWAVE*, and *FemSIM* products. Non-uniform meshing is applicable to a wide array of applications, including high-index contrast structures, metallic structures, quantum well devices and structures with small feature sizes. This is accomplished by using a finer mesh at material interfaces where electromagnetic fields tend to change rapidly and a coarser grid in bulk regions. Without this feature, the mesh would have to be uniform and the grid set to the smallest value needed within the simulation domain in order to get similar accuracy. By reducing the number of grid points, RSoft's *FullWAVE*, a FDTD based simulator, can be orders of magnitude faster when using a non-uniform mesh compared to the equivalent simulation with a uniform mesh.

Other products in the suite have been updated as well: *FemSIM* and *DiffractMOD* have received a speed boost from new advanced simulation algorithms that allow similar accuracy to be obtained at significantly less computational expense when compared to previous versions. *FullWAVE* now has improved clustering capability as well as a new module, *Q-Finder*, for calculating cavity modes and *Q* factors. In addition the launch and analysis capabilities of *DiffractMOD* have been improved and expanded. All products, including *GratingMOD*, are now tightly integrated with *MOST*, RSoft's scanning and optimization tool.

These recent updates illustrate RSoft's commitment to strong development of its family of simulation tools. Robert Scarmozzino, CEO of RSoft Design Group, states, "Non-uniform meshing is a powerful addition to the RSoft Passive Component Design Suite due to increasing needs of designers working with metallic structures and nanotechnology applications. With the other additions to Version 7.0, RSoft shows a continued investment in the emerging design needs of the optoelectronics industry."

RSoft's new Version 7.0 will be demonstrated at Interopto in Tokyo, Japan July 12th-14th (booth #137) and ECOC in Cannes, France, September 25th (booth#596-598). For further information about Version 7.0, please contact RSoft Design Group at info@rsoftdesign.com.

About RSoft Design Group, Inc.

RSoft Design Group is the worldwide leader in photonics design automation software and serves several industries including optical communication, optoelectronics, and semiconductor manufacturing. Within optical communications, RSoft is the only company to provide a full range of design, optimization, and planning software for the entire component- to network- level hierarchy. RSoft also provides design tools for passive and active optoelectronics components and subsystems as well as advanced electromagnetic modeling software for optical metrology and lithography. RSoft Design Group, Inc. is a privately held corporation with offices in the US, Japan and Europe and supports over 10 distributors worldwide.

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