



RSoft Design Group, Thin Film Center Integrate Optical Communication System Simulation Tool With Thin Film Design And Analysis Software

LinkSIM Now Simulates The Performance Of Optical Thin Film Filters Designed With Essential Macleod

May 20, 2003 — Ossining, NY and Tucson, AZ — RSoft Design Group, Inc. (www.rsoftdesign.com) and Thin Film Center, Inc. (www.thinfilmcenter.com) today announced the integration of Thin Film Center's Essential Macleod™ with RSoft's optical communication system simulation software *LinkSIM*™.

LinkSIM is an optical communication system simulation package that includes an object-oriented topology layout facility, a waveform simulation engine, and display and analysis tools. It is used to design optical communication systems and simulate them to determine their performance given various component parameters. Essential Macleod, Thin Film Center's flagship product, is a comprehensive software package for the design and analysis of optical thin films.

Users create filters in Essential Macleod according to the application requirements and specifications. Once the design work is done, Essential Macleod exports the data file describing the filter characteristics to a *LinkSIM* directory where the system simulations are performed. Users can then define their system topology in *LinkSIM* and assign the proper parameters for the system to be simulated, including the custom filter model that describes the filter designed with Essential Macleod. The *LinkSIM* simulations allow users to study the performance of the components designed in Essential Macleod in this system environment. Through this interface, designers can readily modify their filter designs in Essential Macleod to improve their system performance as simulated by *LinkSIM*.

The partnership between RSoft and Thin Film Center enables components designed with Essential Macleod to be directly simulated in *LinkSIM*, and the performance of those components in the system environment can be fully investigated. This integration between device-level and system-level design and simulation provides improved design processes, thereby reducing development cycles and costs.

"The behavior of a thin film component is a complicated function of illumination conditions as well as design. To store enough tables of performance data to deal with all requirements is utterly beyond reasonable capacity. The link with Essential Macleod neatly solves this problem. Powerful tools can be used to design new components that can immediately be plugged into *LinkSIM* to evaluate their effect on system performance," explained Angus Macleod, CEO of Thin Film Center.

LinkSIM is one of RSoft's two system level tools, along with the newly-acquired system-level simulation tool *OptSim*[™]. A combined system simulation product is under development, and the integration with Essential Macleod will be available in that merged tool.

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About RSoft Design Group, Inc.

Offering a comprehensive suite of design and business analysis software solutions to the telecommunications and photonics industries, RSoft Design Group is the only company that provides a full range of simulation and planning software and services across the entire component to network-level hierarchy. The company's award-winning products are used by researchers, manufacturers, systems integrators, and service providers to address design challenges ranging from the physics of component design to the business implications of planning wired and wireless networks. RSoft Design Group, Inc. is a privately held corporation with software development offices in New York, New Jersey, Illinois and Silicon Valley, and global marketing operations in the Pacific Rim, Europe, and the Middle East. For more information, visit www.rsoftdesign.com.

About Thin Film Center, Inc.

Thin Film Center provides optical thin film design and analysis software, training services and consulting for the coating industry. For more information, visit www.thinfilmcenter.com.

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