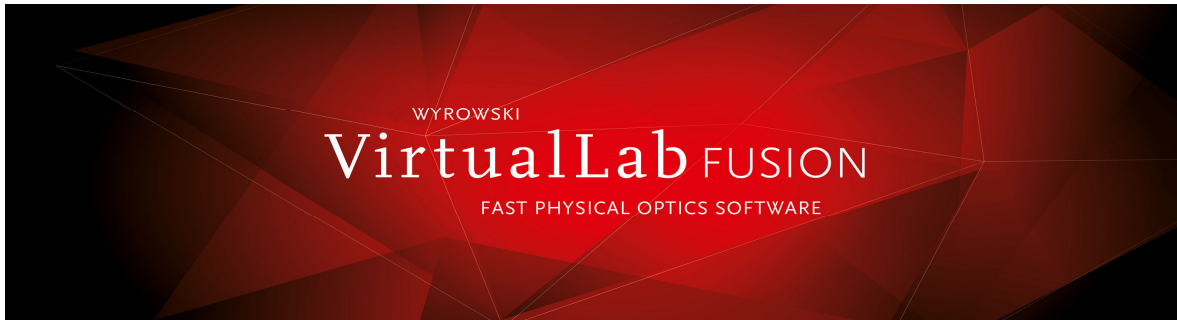


VirtualLab Fusion Version 2021.1

Fast Physical Optics Software

Diffraction, Interference, Polarization, Wavefront Aberrations, Partial Coherence

Simulation, Design, Optimization



NEW Microlens Array Component (MLA)

Applications such as digital projectors, optical diffusers, 3D imaging
Surface profile is defined by a stack where stack period is the
MLA period

Subchannels can be created for non-sequential modeling of each
surface of individual microlenses.

Configure each channel for inner, outer or shared soft edges

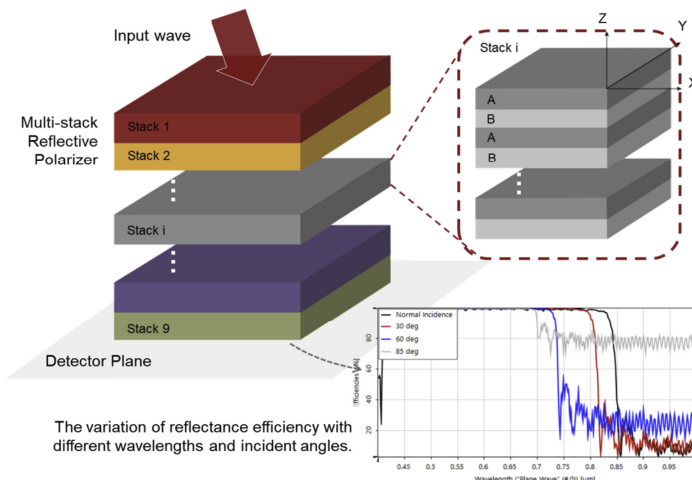
Show MLA amplitudes and energy densities

Ray tracing to show far field results

Field tracing (fully vectorial) to show near field and far field results

Anisotropic layers - Birefringence

Such as multilayer birefringent reflective polarizers for LCD displays



NEW: Stratified Media Component: Consists of stacks of alternate isotropic and anisotropic layers

Catalog of media and coatings: Choose from predefined media or use template to customize a medium

Parameter Run for scanning wavelengths, angles and other parameter to calculate efficiency and bandwidth for various numbers of layers

NEW: Waveplate Calculator to determine thickness and retardation of a waveplate with given characteristics

S-Matrix solver works in k-domain for fully vectorial field tracing

CONTACT

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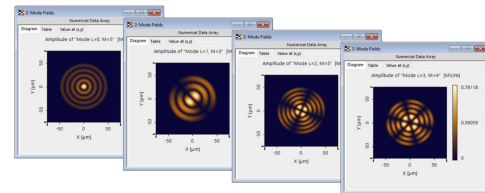
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NEW Fiber Features



Fiber Mode Calculator to analyze LP Bessel and LP Laguerre modes for step-index and graded-index fibers

LP Mode Light Source for propagation of LP modes through any optical system

Multimode Fiber Coupling Efficiency Detector evaluates the overlap integral of the incident beam with the LP modes

Calculates propagation constants and mode fields of all existing LP modes and diffraction patterns

NEW: Multiple Light Source Component

Supports partially coherent light sources except panel type and scanning source

Supports coherent combination for polychromatic primary light sources

Load light sources from catalog, then edit and view parameters

Parameter coupling to link related parameters e.g. repositioning group of sources together

Simulate additive mixing of wavelengths

Observe coherence effects: For plane waves at different incident angles and linear phases

More New Features

Improved Zemax import into VirtualLab

Improved workflow: seamless transition from ray tracing to fully vectorial physical optics
More detailed 3D view of optical setup for ray tracing and field tracing

Easier, more versatile procedure for coatings:

Coatings are now a sequence of materials instead of homogeneous materials

Many more performance and convenience features

Contact HMS Technology Sales for full

Release Notes with more details and examples