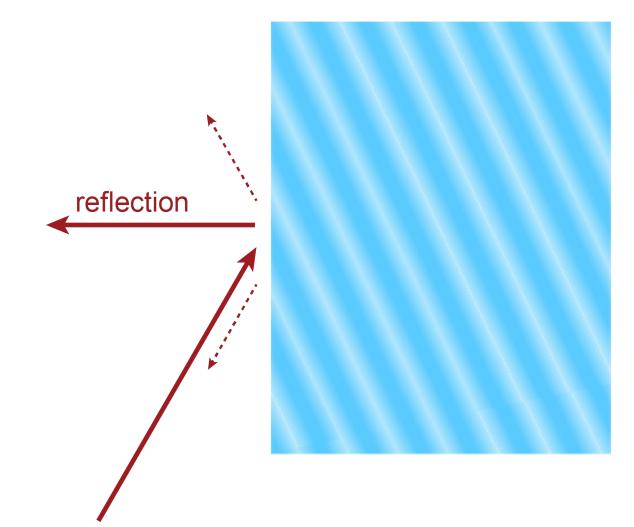


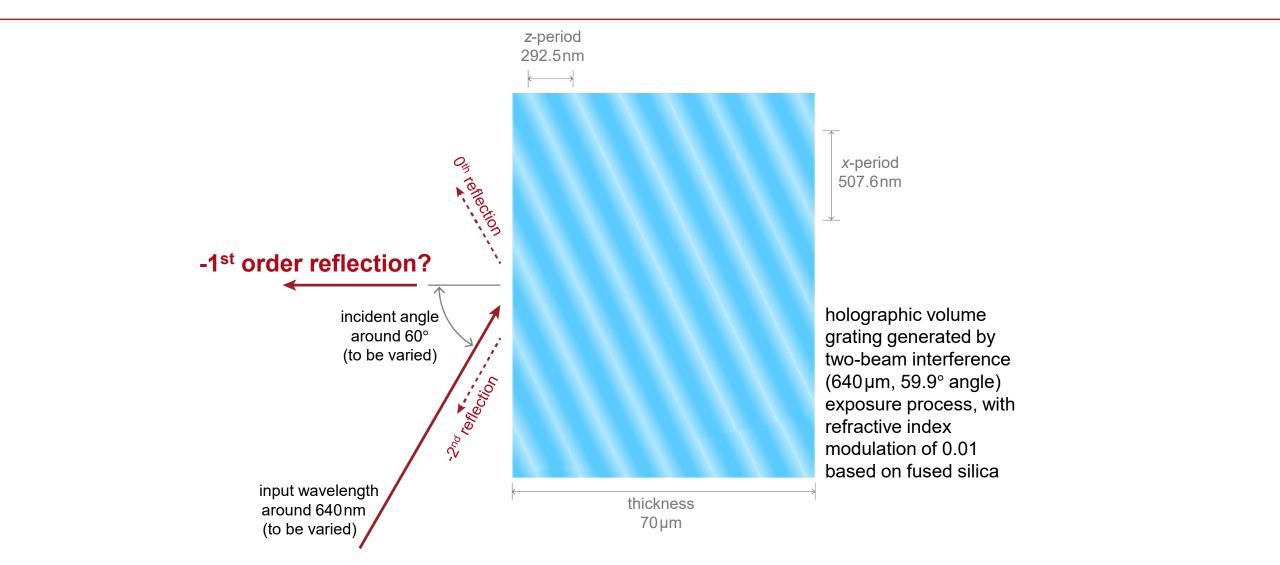
Rigorous Simulation of Holographic Generated Volume Grating

Abstract

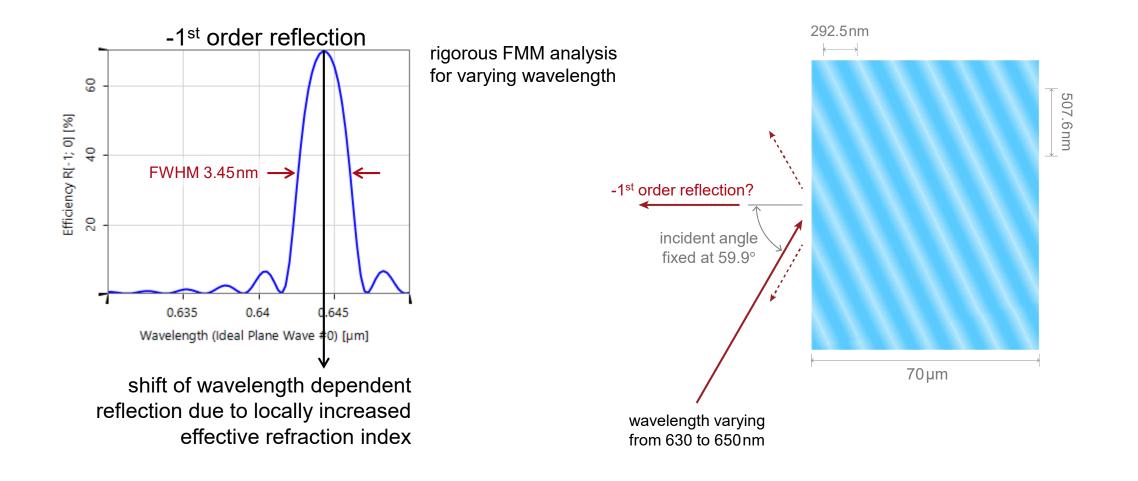


Holographic generated volume gratings, with a thickness much larger than the wavelength, often shows a narrow bandwidth around wavelength and angle. Following the two-beam interference exposure process, a volume grating inside fused silica is generated and simulated with the rigorous Fourier modal method (FMM) in VirtualLab Fusion. Both the spectral and angular dependent reflection property of the grating are analyzed.

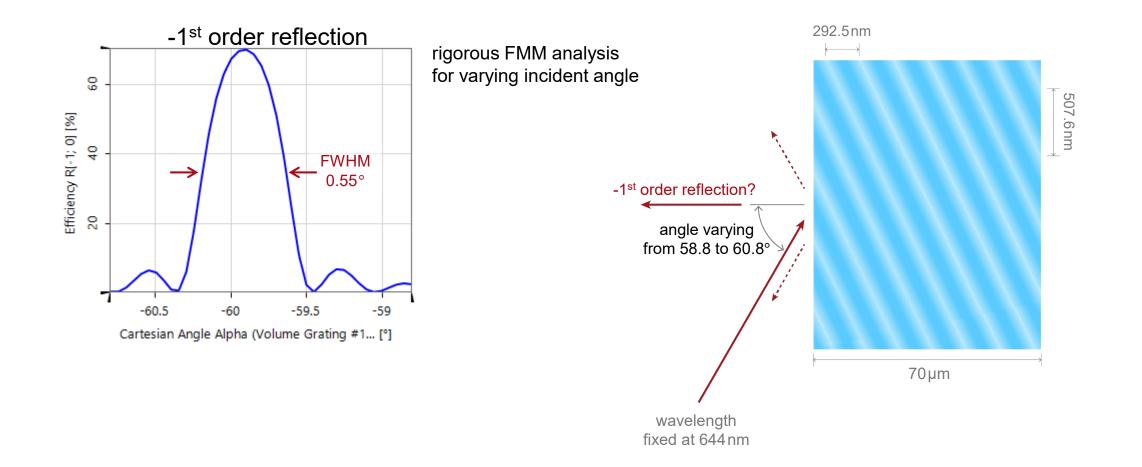
Modeling Task



Diffraction Efficiency vs. Wavelength



Diffraction Efficiency vs. Angle of Incidence



title	Rigorous Simulation of Holographic Generated Volume Grating
document code	GRT.0003
version	1.1
toolbox(es)	Grating Toolbox
VL version used for simulations	7.5.0.158
category	Application Use Case
further reading	- Configuration of Grating Structures by Using Special Media