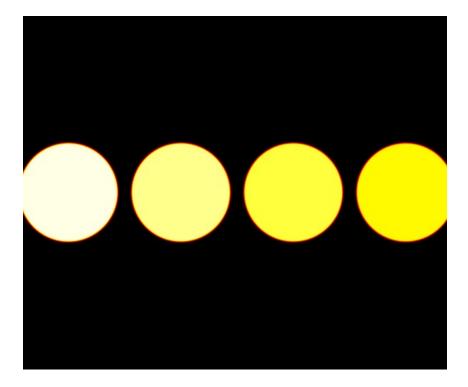


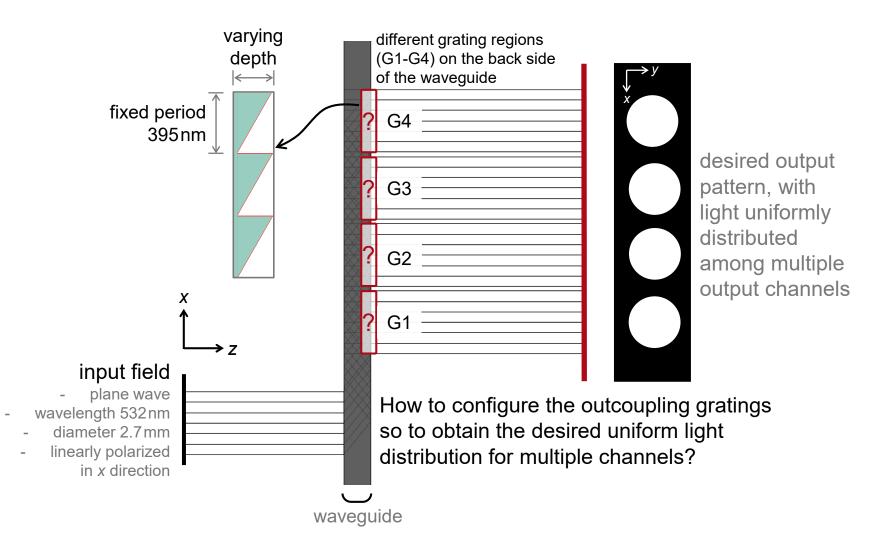
Optimizing Waveguide Outcoupling Gratings for Uniform Multiple Channels

Abstract

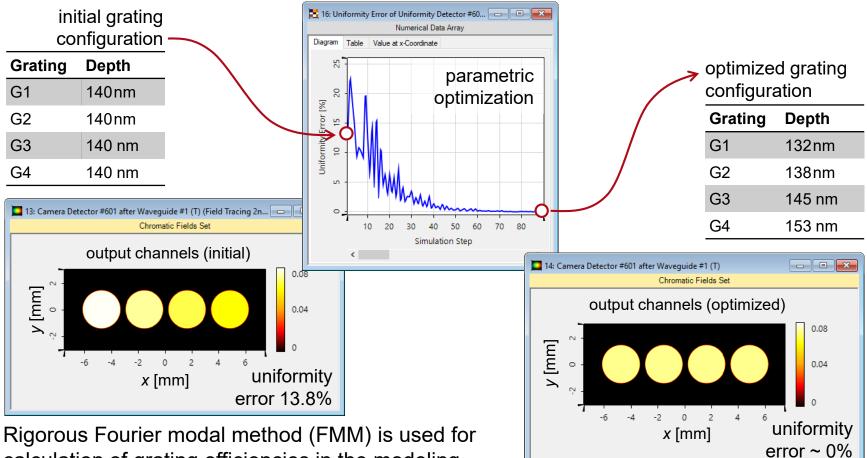


In the design of waveguide-based near-to-eye displays, a key issue is the configuration of the in- and outcoupling gratings. As a multichannel imaging system, the uniformity among all output channels must be ensured. In this example, a set of outcoupling gratings are optimized in VirtualLab Fusion, so to generate uniform multiple channels. For grating modeling and diffraction efficiency calculation in the optimization, rigorous Fourier Modal method is employed.

Design Task



Results



calculation of grating efficiencies in the modeling.

Document Information

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