Stokes Parameters Measurement behind a Tilted Polarizer
Abstract

Polarizers are common components in various optical systems. To describe the functions of a polarizer, not only for the paraxial case but also beyond, an idealized model is implemented in VirtualLab. As an example, the interaction of a polarizer with incident wave from different angles is investigated. The resulting field behind the polarizer is characterized by Stokes parameters.
Modeling Task

How to calculate the Stokes parameters behind a tilted polarizer?

input plane wave
- wavelength 633nm
- linearly polarized in y direction

2D section view on the polarizer plane

94.5°
Results

Test over 90 degrees takes 40 seconds

<table>
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<th>Stokes Parameters Measurement behind a Tilted Polarizer</th>
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