

TEST DOCUMENT

GROUP: 10

Design and simulation of optical devices by using optical constants and interference effects in thin films

First iteration of code with gui (main_gui) generate results by manual selection of data points for maxima and minima.

Second iteration of code with gui(main_gui_new) generate results by automatic selection of data points for maxima and minima.(automatic envelope curves)

Two folders:

1. First iteration results:contains results generated during first iteration testing.
2. Second iteration results:contains results generated during second iteration testing.

Set of datas used for testing: 2

data TS1 - substrate transmission for first set of data.

data TS2 - substrate transmission for first set of data.

data T1 - sample transmission for first set of data.

data T2 - sample transmission for first set of data.

data T1_expt - file generated after reading data 1.

data T2_expt - file generated after reading data 2.

data T1_expt_simulated - result file generated for data 1.

data T2_expt_simulated - result file generated for data 2.

Graphs and figures:

The result graphs for data 1 and data 2 shows the comparison between the curves obtained experimentally (shown in blue) with those generated by the software ODMS (shown in red).

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