

MULTILAYER OPTICAL COATING OPTIMIZATION

The goal: to ensure minimal values of reflection (adsorption) ratios of the surface in given range of wave lengths.

- Multi objective optimization task with 2 objectives (reflection/adsorption)
- Application - In-house mathematical code
- Variables: the order, the number, the thicknesses of coating layers (up to 40 variables)

Results: slide 2; by comparison with the starting position, optimal values of surface multilayer optical covering layer thickness were determined, which assured the considerable reducing of reflection ratio on given range of wave length.

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Purpose: to ensure minimal reflection ratio for the given range of wave length at the expense of optimal choice of the coating layers thickness

