

MULTILAYER OPTICAL COATING OPTIMIZATION

Purpose:

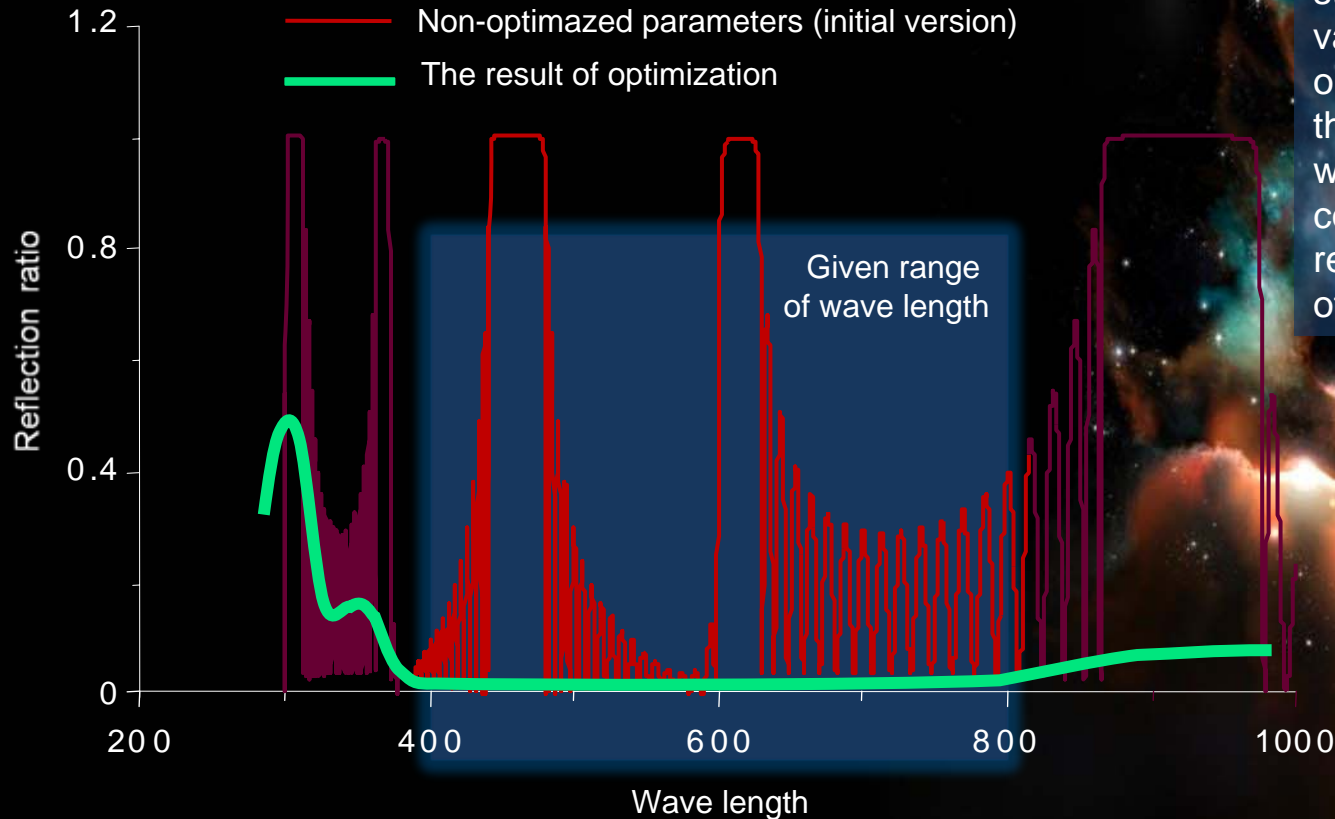
to insure minimal reflection ratio for the given range of wave length by means of the optimal choice of the coating layer thicknesses



Problem features:

- 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)

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Results:

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.