

SIMULATION OF THREE-LAYER
TRANSPARENT STRUCTURES
BY THE METHOD OF ENVELOPING
AMPLITUDE-PHASE FABRY—PEROT
SPECTRA UPON THE NORMAL INCIDENCE
OF A LIGHT BEAM ON THE INTERFACES

P.S. Kosobutskiy, A. Morgulis¹

Institute of Applied Mathematic
and Fundamental Sciences,
L'viv National University "L'vivs'ka Politekhnika"
(12, Bandera Str., L'viv 79646, Ukraine;
e-mail: petkosob@polynet.lviv.ua),

¹City University of New York
(199, Chambers Str., New York 10007, USA;
e-mail: askmath@yahoo.com)

S u m m a r y

A general approach to the description of amplitude-phase regularities of the spectra for the normal reflection from and the transmission of light by plane transparent three-layer structures with the use of the coefficients for the extrema of Fabry—Perot interference bands as enveloping contours is proposed. The correlations between the structure parameters and the reflectivities, transmittances, and phase relations for the corresponding waves are established.