

عنوان مقاله:

Investigation of optical properties of MgF₂/MgF₂/glass and MgF₂/Ag/glass multilayers

محل انتشار:

اولین کنفرانس ملی نانوالکترونیک ایران (سال: 1391)

تعداد صفحات اصل مقاله: 7

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خلاصه مقاله:

Magnesium fluoride thin films with the thickness of 93 nm were deposited on MgF₂/glass and Ag/glass thin layers by resistance evaporation method under UHV conditions, by rotating pre layer for sample one and normal deposition for sample two. Their optical properties were measured by spectrophotometer in the spectral range of 300 – 1100 nm wavelength (VIS). The optical constants such as, the real part of refractive index (n), imaginary part of refractive index (k), real and imaginary parts of dielectric function ϵ_1 , ϵ_2 respectively and absorption coefficient (α), were obtained from the Kramers-Kronig analysis of the reflectivity curves. Band-gap energy (E_g) was also estimated for these films.

کلمات کلیدی:

Multilayer semiconductors, Magnesium fluoride, Silver, optical property, Kramers-Kronig

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