OPTICAL PROPERTIES OF YTTERBIUM TRIANTIMONIDE THIN FILMS

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S u m m a r y

Rare-earth anthimonides represent interesting objects for researches owing to their exclusive properties. For the first time, we have studied the reflection and absorption spectra of α -Yb₅Sb₃ (the Mn₅Si₃-type hexagonal lattice with parameters a = 8.97 Å and c = 6.90 Å) thin films prepared by vacuum-thermal deposition. Based on the analysis of the obtained results, the energy band structures near the extrema of the valency and conduction bands are suggested.