

文献

Levcenko, S.^a, Gurieva, G.^a, Friedrich, E.J.^b

Optical constants of Cu(In_{0.7}Ga_{0.3})₅Se₈ and Cu(In_{0.4}Ga_{0.6})₅Se₈ crystals

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^a Institute of Applied Physics, Academy of Sciences of Moldova, Chisinau, 2028, Moldova

^b Departamento de Física Aplicada, Universidad Autónoma de Madrid, 28049 Madrid, Spain

抄録 (Abstract)

Variable angle spectroscopic ellipsometry has been applied to characterize the optical constants of bulk Cu(In_{0.7}Ga_{0.3})₅Se₈s and Cu(In_{0.4}Ga_{0.6})₅Se₈s crystals grown by the Bridgman method. The spectra were measured at room temperature over the energy range 0.8-4.4 eV. **Adachi's** model was used to calculate the dielectric functions as well as the spectral dependence of complex refractive index, absorption coefficient, and normal-incidence reflectivity. The calculated data are in good agreement with the experimental ones over the entire range of photon energies. The parameters such as strength, threshold energy, and broadening, corresponding to the E₀, E_{1A}, and E_{1B} interband transitions, have been determined using the simulated annealing algorithm. © 2010 Elsevier Ltd. All rights reserved.

著者キーワード

A. Semiconductors; D. Optical properties

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