

文献

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Modulation of the reflectivity in amorphous semiconductors
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抄録 (Abstract)

In this work we treat the modulated reflectivity of amorphous semiconductors using the optical dispersion relations recently established by [Sadao Adachi](#) (Phys. Rev. B 43, 12316 (1991)). Relative changes of the reflectivity were calculated assuming that the modulation of the dielectric function is associated with small changes of the energy gap or with perturbations to the energy broadening parameter and/or with small shiftings of the dielectric function spectrum. The comparison of these results with photoreflectance spectra obtained from amorphous O:CdTe films allows the identification of the mechanism of photomodulation of the absorption edge as arising from the energy gap modulation. In this material it is also found a sub-band gap feature whose origin could be a D center. © 1993.

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