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Research Details :

Research Title	: <u>Modeling of Orbital Triplet Jahn-Teller System in III-V Semiconductor</u> <u>نمذجة المنظومة جان وتلر المدارية الثلاثية في أشباه الموصلات من المجموعة الثالثة و الخامسة</u>
Descriptipn	: This work presents a new theoretical model for Ti^{3+} ions in the GaP semiconductor. The symmetry for this system is a tetrahedral symmetry. Tile theoretical model is used to explain the results of Zeeman photoIlnil1escel1ce experimental measurement1t taken from published experimental works. The effective Hamiltonian of this system 11as been constructed and a computer programs are used to detem1ine the parameters of this Hamiltonian. These parameters are used to predict the energies of PL lines versus magnetic field and to calculate the transition probabilities which are found to be in very good agreement with the experimental data
Research Type	: Master
Research Year	: 1999
Publisher	: KAAU
Supervisor	: د. محمد رياض عرفه ، د. محمد سعيد الأحمدى
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