



Defects and positron states in Compound Semiconductors

By Sandip Pan

LAP Lambert Academic Publishing Jul 2016, 2016. Taschenbuch. Book Condition: Neu. 220x150x9 mm. Neuware -Four different application oriented III-V compound semiconductors have been selected for investigation using Positron annihilation spectroscopy (PAS) techniques. First one is Fe-doped semi-insulating Indium Phosphide. Positron annihilation lifetime spectroscopy (PALS) and Doppler broadening annihilation radiation (DBAR) measurements have been done in 140 MeV O(6+) ion implanted Fe-doped semiinsulating InP sample to observe irradiation induced defects formation and recovery of those defects with annealing temperature. Second, third & last samples are undoped Indium Antimonide, undoped Indium Phosphide & n-type Gallium Arsenide. PALS & DBAR measurements have been carried out in 40 MeV alpha irradiated undoped InSb, undoped InP and ntype GaAs samples to observe irradiation induced defects formation and recovery of those defects with annealing temperature respectively. 144 pp. Englisch.



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