

... model calculations to be 760oC [2]. Alloys ... technique [3]. Since the first organometallic ... reports to obtain alloy compositions inside the ...  $0.64 < x < 1$ . Shin et al. [6] reported MOCVD ... and Cherng demonstrated the successful ... sources, especially the group V hydrides ... in AsH<sub>3</sub>. It has a decomposition ... has a convenient vapor pressure for MOCVD ... nds and alloys by MOCVD, it is not ... [10]. In additions, high carbon ... e been devoted to developing new Sb ... th of Sb containing compounds by MOCVD ... y with no serious impurity contamination. ... c source one can decrease the growth ... incorporation of native defects foreign ... s like N(CH<sub>3</sub>)<sub>2</sub>, aziridine (HN(CH<sub>2</sub>)<sub>2</sub>) and ... TEGa) forming volatile molecules and ... wledge, there are no reports on the growth ... alloy using these sources with the ... of solid immiscibility were obtained.

... b, and Shin [6] using TBAs and TBDMSb, ... ity gap without phase separation when ... ntly be trapped in the solid by the next ... r are immobilized by being covered over

... es of input V/III ratio approximately

... V reactants in order to minimize possible ... 280oC, respectively, were the precursors. ... for Hall effect measurements. The V/III ... morphology at each V/III ratio (between ... [TDMASb]/([TDMAAs + TDMASb]) ... The substrates were first degreased by h ... for 5 minutes, then chemically etched u ... 3 : 1 : 1) for 2 min. Finally the substrate ... reactor. In order to eliminate carbon-ox ... was raised to the final growth temperat ... The Sb-solid composition onto GaAsSb la ... were examined using Scanning Electron ... geometry. Gold (Au) was used to form th ... varied between 3.2 and 355 mT.

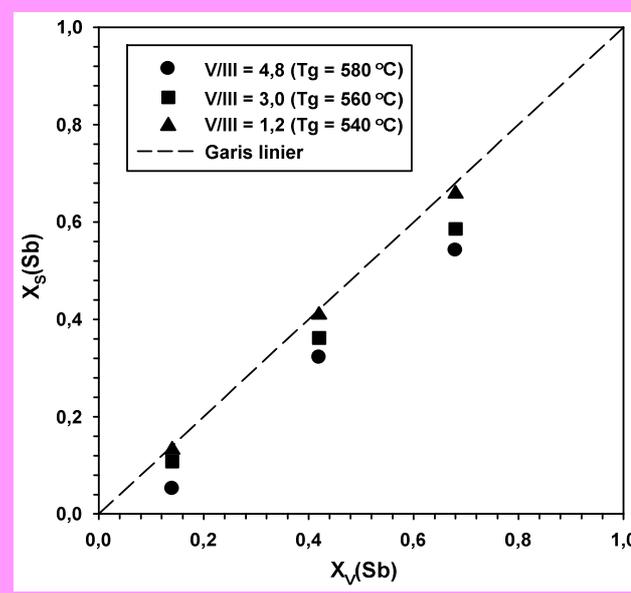


Fig. 1. Sb distribution coefficient for GaAs<sub>1-x</sub>Sb<sub>x</sub> layers grown on GaAs substrate