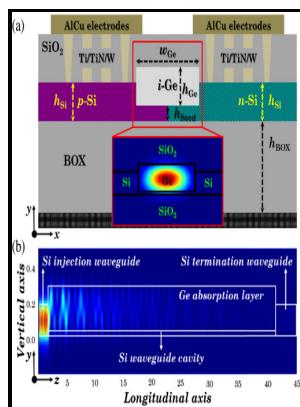


# Fabrication and physical properties of germanium-silicon alloyed heterojunctions.

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Description: -

-fabrication and physical properties of germanium-silicon alloyed

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Notes: MSc thesis, Electrical Engineering.

This edition was published in 1971



Filesize: 64.99 MB

Tags: #Gadolinium #Silicon #Germanium #Alloy

## Fabrication of high

The exposed areas of MoSe 2 and MoS 2 may be converted to areas of WSe 2 and WS 2 respectively, by replacing the metal Mo atoms with, for example, W atoms, as described above. Consequently, as shown in FIG.

## Heteroepitaxy of germanium silicon on silicon utilizing alloying control

Regarding STEM Z-contrast imaging and analysis, all STEM samples were baked at 160° C. There is some uncertainty in the chosen values of alloy scattering parameters used in the calculations, but nevertheless the results are representative of current understanding. Therefore, DFBT-TT6 is more prone to being located at the interface of PM6 and Y6, and it is energetically favorable for charge transfer.

## Chemistry of Materials

Electron energy loss spectroscopy EELS and spectrum imaging was performed using a Gatan Enfina with a nominal collection angle of 35 mrad. Furthermore, the thermal expansion coefficient of Si is about half that of GaAs.

## Heteroepitaxy of germanium silicon on silicon utilizing alloying control

While it has historically been expected that OLA pyrolyzes during thermal treatments, this work identifies that OLA decomposes into nanostructured graphitic carbon, which is first detectable immediately after the NC synthesis at 225 °C, well before the employment of thermal treatments. The Si substrate shows no evidence of twinning.

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