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Aluminium gallium arsenide (also gallium aluminium arsenide) ( $\text{Al}_x\text{Ga}_{1-x}\text{As}$ ) is a semiconductor material with very nearly the same lattice constant as GaAs, but a larger bandgap. The  $x$  in the formula above is a number between 0 and 1 - this indicates an arbitrary alloy between GaAs and AlAs. The chemical formula AlGaAs should be considered an abbreviated form of the above, rather than any ...

## **Aluminium gallium arsenide - Wikipedia**

Indium gallium arsenide (InGaAs) (alternatively gallium indium arsenide, GaInAs) is a ternary alloy (chemical compound) of indium arsenide (InAs) and gallium arsenide (GaAs). Indium and gallium are elements of the periodic table while arsenic is a element. Alloys made of these chemical groups are referred to as "III-V" compounds. InGaAs has properties intermediate between those of GaAs and InAs.

## **Indium gallium arsenide - Wikipedia**

A series of ultrathin InSb films grown on GaAs by low-pressure metalorganic chemical vapor deposition with different V/III ratios were investigated thoroughly using spectroscopic ellipsometry (SE), X-ray diffraction, and synchrotron radiation X-ray absorption spectroscopy. The results predicted that InSb films on GaAs grown under too high or too low V/III ratios are with poor quality, while ...

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