

# **Atomic Diffusion In Semiconductors**

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Conversion from minority carrier diffusion length to lifetime. Semiconductor Materials; Semiconductor Structure; Conduction in Semiconductors; Band Gap;

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Abstract Atomic diffusion in semiconductors refers to the migration of atoms, including host, dopant and impurities. Diffusion occurs in all thermodynamic phases, but

### **Diffusion of impurities for ic fabrication -**

A convenient technique for making p-n junction is the alloying of a metal containing doping atoms on a semiconductor with the opposite Nature of Impurity Diffusion.

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Atomic Diffusion in III-V Semiconductors Hardcover. III-V semiconductors, of which gallium arsenide is the best known, have been important for some years and appear

### **Diffusion of impurities & dopants in silicon,**

Impurity Profiles for Diffusion in Common Semiconductors. Select a semiconductor: Silicon (Si) Germanium (Ge) Aluminum Antimonide (AlSb) Gallium Arsenide (GaAs)

### **2 diffusion in si, ge, and their alloys -**

This chapter provides an introduction on diffusion in silicon, germanium and their alloys. Diffusion processes in semiconductors are of vital importance for the

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A simple description of atomic diffusion mechanisms in semiconductors is given, and then the meaning of the diffusion coefficient is outlined.

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### **Hydrogen diffusion in crystalline semiconductors**

The diffusion of hydrogen in semiconductors is complicated by the existence of several charge states (notably H<sup>+</sup> in p-type material and H<sup>-</sup> or H<sup>0</sup> in n-type mater

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Features; Presents the experimental work carried out on diffusion in III-Vs and models proposed in this area; Provides the background needed to understand this

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### **Doping ( semiconductor) - wikipedia, the free**

In semiconductor production, doping intentionally introduces impurities into an extremely pure (also referred to as intrinsic) semiconductor for the purpose of

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III-V semiconductors, of which gallium arsenide is the best known, have been important for some years and appear set to become much more so in the future.

### **Atomic diffusion in tetrahedral semiconductors**

How to Cite. Enders, P. and Schade, U. (1988), Atomic Diffusion in Tetrahedral Semiconductors. Approximative Treatment of Diffusion Theories. Phys.

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An attempt is made to give a simple account of the way in which doping atoms diffuse in semiconductors, taking as examples some of the experimental results whic

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Pure semiconductors that have been altered by the presence See ion implantation, surface diffusion, group IV semiconductors: Donors: group V atoms: antimony

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drive in : high temperature (>800 o C) operation performed on semiconductor wafer in an inert ambient; causes motion of dopant atoms in semiconductor in the direction

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