

# Atomic Diffusion In Semiconductors

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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  $H^+$  in p-type material and  $H^-$  or  $H^0$  in n-type mater

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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

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diffusion A semiconductor manufacturing process that infuses tiny quantities of impurities The atomic mechanisms of diffusion are closely connected with defects

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The diffusion or migration of atoms in matter, of whatever form, is a basic consequence of the existence of atoms. In metals, atomic diffusion has a well established

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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

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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

### **Semiconductor OneSource: Semiconductor Glossary -**

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

### **Dip sit Digital de la UB: Atomic diffusion induced -**

This evolution in line with layer thickness is due to the atomic diffusion at the surface Atomic diffusion induced by stress relaxation in Semiconductors

### **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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### **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.

### **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.

### **Atomic Diffusion in Semiconductors - Springer -**

Atomic Diffusion in Semiconductors. Editors: General Features of Diffusion in Semiconductors. D. Shaw. Download PDF (6261KB) Book Chapter. Pages 65-110.

### **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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### **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)

### **Diffusion Length | PVEducation -**

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

### **Atomic diffusion in semiconductors - Abstract - -**

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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### **Dopant - Wikipedia, the free encyclopedia -**

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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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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