

Figure 2.14 Physical properties of semiconductor materials.

	Ge	Si	GaAs	SiO ₂
Atomic Weight	72.6	28.09	144.53	60.08
Atoms/cm ³ or Molecules	4.42×10^{22}	5.00×10^{22}	2.21×10^{23}	2.3×10^{22}
Crystal Structure	Diamond	Diamond	Zinc-Blends	Amorphous
Atoms/Unit Cell	8	8	8	—
Density	5.32	2.33	5.65	2.27
Energy Gap	0.67	1.11	1.40	8 (approx.)
Dielectric Constant	16.3	11.7	12.0	3.9
Melting Point (°C)	937*	1415*	1238*	1700* (approx.)
Breakdown Field (V/cm)	*5 (approx.)	30 (approx.)	35 (approx.)	600 (approx.)
Linear Coefficient of Thermal Expansion	5.8×10^{-6}	2.5×10^{-6}	5.9×10^{-6}	0.5×10^{-4}

Electronic Properties Of Inhomogeneous Semiconductors

Jianjun Gao



Electronic Properties Of Inhomogeneous Semiconductors:

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