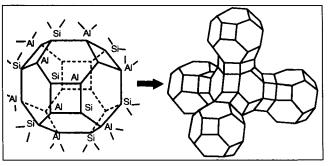
• By us	hotodiode structures ²³ that permit a sepa- nof electrons and holes in direct space. Sing band gap engineering and extracting	opportunities of changing the optical properties by selecting different orientations. While long (strain free) superlattices (AC) (BC) and $(p,q) \rightarrow \infty$ have the
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suchl	ateral superlattice structures could become	short-period superlattices have band gaps that de
such l	ateral superlattice structures could become ior to the double haterostructures. Indeed	short-period superlattices have band gaps that de
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in Gr	oup III-V compound semiconductors for	esting degree of freedom for superlattice band gap
in Gr	ior to the double haterostructures Indeed	esting degree of freedom for superlattice band gape engineering without strain. The theory for this war
in Gr	oup III-V compound semiconductors for	esting degree of freedom for superlattice band gap
in Gr	oup III-V compound semiconductors for	esting degree of freedom for superlattice band gap

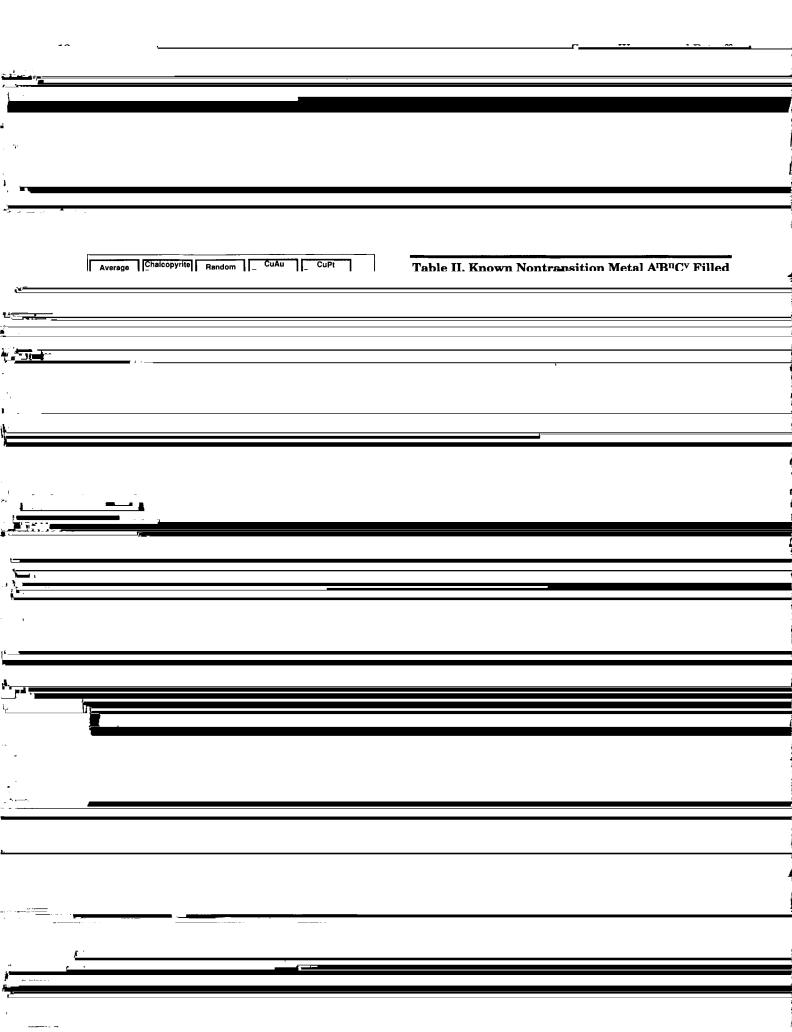


One of the nontrivial problems to solve is that of the vapor diffusion inside the tubes without plugging them by the deposited semiconductor. Hence, it is essential to separate the loading (diffusion) cycle from the cracking cycle that is taking place at a higher temperature. A repeated sequence of loading and cracking cycles was found to be a convenient way of loading the zeolite structures. The semiconductor epitaxy is then completed by an annealing cycle. The entire process is monitored with a quadrupole mass spectrometer. Weight change measurements upon

semiconductor. The zeolite consists of a wide band gap silica-aluminate or SiO₂. These mesoporous zeolite structures are synthesized from a lipid micelles solution doped with Si.46a After annealing of this zeolite loading.

Tomiya et al.46b have performed such experiments using a Y zeolite cage matrix and germanium as the prototype semiconductor. Germane vapor was loaded in the zeolite cages. The presence of germanium was

	GaP or GaAs or ZnSe.	1.0	Cation-terminated (001) Ga _{0.5} In _{0.5} P top surface			
	The graphoepitaxial process could in fact play an important role in the formation of the semiconductor	1.0	7			7 .
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