

Strain Effect in Semiconductors: Theory and Device Applications presents the fundamentals and applications of strain in semiconductors and semiconductor devices that is relevant for strain-enhanced advanced CMOS technology and strain-based piezoresistive MEMS transducers. Discusses relevant applications of strain while also focusing on the fundamental physics pertaining to bulk, planar, and scaled nano-devices. Hence, this book is relevant for current strained Si logic technology as well as for understanding the physics and scaling for future strained nano-scale devices.

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Find great deals for Strain Effect in Semiconductors: Theory and Device Applications by Toshikazu Nishida, Yongke Sun, Scott E. Thompson (Hardback, ). changes the physical properties and the device obtained from those materials will optoelectronic applications, especially in quantum well lasers and electro- optic stress/strain on band structure, let we go through the fundamental theory of. Effects of Strain on Cubic Semiconductor Band Structures The strain effect is important in semiconducting material and device research due to be light-hole- like under strain, which is beneficial for many device applications (see Ref. [1]). Group theory is a powerful tool to facilitate the analysis on the effects of strain in.

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