

### **fundamentals of semiconductor devices pdf**

Physics for the year 2000 has been awarded to two semiconductor physicists, Zhores I. Alferov and Herbert Kroemer (for developing semiconductor heterostructures used in high-speed- and opto-electronics) and a semiconductor device engineer, Jack S. Kilby (for his part in the invention of the integrated circuit).

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On the other hand, in the case of electronic device applications, the understanding of electron-phonon interaction, transport and vibrational properties due to heating is also a relevant matter because of technological driver such as nanoparticles for thermal medical therapies and thermal management of nanoscale electronic devices [6, 7].

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Semiconductor Device Physics and Design UMESH K. MISHRA University of California, Santa Barbara, CA, USA and JASPRIT SINGH The University of Michigan, Ann Arbor, MI, USA

### **SEMICONDUCTOR DEVICE PHYSICS AND DESIGN**

In this booklet, we review the fundamentals of Semiconductor Physics and basics of device operation. We

shall concentrate largely on elemental semiconducors such

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