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properties of iii v compound semiconductor devices highlighting the theoretical and practical aspects of their device physics understand about the two charge carriers electrons and holes in semiconductors understand why doping of semiconductors is useful be familiar with basic electronic devices made using semiconductors and how these devices operate the purpose of the third edition of this book is to provide a basis for understanding the characteristics operation and limitations of semiconductor devices semiconductors exhibit electrical behavior between insulators and conductors semiconductors particularly silicon are used to create transistors which are the most common circuit component billions of transistors fit into one small integrated circuit ic inside smartphones computers and cars from electric to electronic

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