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asemiconductor device is an electronic component that relies on the electronic properties of a semiconductor material primarily silicon germanium and gallium arsenide as well as organic semiconductors for its function its conductivity lies between conductors and insulators □□□ 2022□1□8□ NOTE AND THE PROPERTY OF THE features and applications of the fundamental semiconductor devices such as diodes bipolar junction transistors junction field effect transistors metal oxide semiconductor field effect transistors and insulated gate table of contents chapter 1 semiconductor fundamentals 1 0 chapter objectives 1 1 introduction □□□ 2024□4□27□ semiconductor device electronic circuit component made from a material that is neither a good conductor nor a good insulator hence semiconductor such devices have found wide applications because of their compactness reliability and low cost as discrete components they have found use in $\square\square\square$ 2022 $\square8\square10\square$ semiconductors are how electronic devices process store and receive information for instance memory chips store data and software as binary code digital chips manipulate the data based on the $\square \square \square 2024 \square 4 \square 16 \square$ what is a semiconductor semiconductors are the brains of modern electronics semiconductors are an essential component of electronic devices enabling advances in communications computing healthcare military systems transportation clean energy and countless other applications view industry fact sheet $\Pi\Pi\Pi$ 2024 Π 5 Π 17 ☐ semiconductor any of a class of crystalline solids intermediate in electrical conductivity between a conductor and an insulator semiconductors are employed in the manufacture of various kinds of electronic devices including diodes transistors and integrated circuits \propto \propto the term semiconductor refers to a material that can be altered to conduct electrical current or block its passage however it more commonly refers to an integrated circuit ic or computer chip the most common semiconductor material is silicon not surprisingly silicon is also the main ingredient in computer chips

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this book discusses the features and applications of the fundamental semiconductor devices such as diodes bipolar junction transistors junction field effect transistors metal oxide semiconductor field effect transistors and insulated gate table of contents chapter 1 semiconductor fundamentals 1 0 chapter objectives 1 1 introduction

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for instance mem	ory chips store data and software as binary code digital chips manipulate the data
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