

Transistor Characteristics

Aim:

To study the static characteristics of a Transistor (common emitter configuration)

Apparatus required:

NPN transistor, power supply, voltmeter, ammeter.

Theory:

A transistor is a solid state device used to amplify or switch electronic signals and electric power. A transistor consists of two pn junctions formed by sandwiching either P-type or N-type semiconductor between a pair of opposite types. There are two types of transistors, namely, N-P-N transistor and P-N-P transistor. The transistor can be regarded as a combination of two diodes connected back to back. There are three terminals taken from each type of semiconductor. The emitter, base and collector are provided with terminals which are labeled as E, B and C. The symbols employed for P-N-P and N-P-N transistor is as shown below. The arrow head is always at the emitter (not at the collector) and in each case, its direction indicates conventional direction of current flow. For a PNP transistor, the arrow head points emitter to base(emitter is positive with respect to base and also to the collector). And for a NPN transistor, arrow head points base to emitter(base is positive with respect to emitter and also with collector terminal)



1. **Emitter:** It forms left hand section of the transistor. It is more heavily doped than any other regions because its main function is to supply majority charge carriers, either electrons or holes.(electrons if emitter is N-type and holes if emitter is P-type)
2. **Base:** It forms the middle section of the transistor. It is very thin (of the order of 10^{-6}m) when compared with other sections, emitter and collector and is very lightly doped.
3. **Collector:** It forms the right hand section of the transistor and is lightly doped. Its main function as the name implies that to collect the majority charge carriers through base. The collector region is made physically larger when compared with other regions because it has to dissipate much greater power. And because of this reason, we cannot interchange the regions emitter to collector and vice versa. However, for the sake of convenience, it is customary to show emitter and collector to be of equal size.

Physics Manual Transistor Characteristics

L. K. Maheshwari, M. M. S. Anand



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Table of Contents Physics Manual Transistor Characteristics

1. Understanding the eBook Physics Manual Transistor Characteristics
 - The Rise of Digital Reading Physics Manual Transistor Characteristics
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Manual Transistor Characteristics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physics Manual Transistor Characteristics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Manual Transistor Characteristics
 - Personalized Recommendations
 - Physics Manual Transistor Characteristics User Reviews and Ratings
 - Physics Manual Transistor Characteristics and Bestseller Lists
5. Accessing Physics Manual Transistor Characteristics Free and Paid eBooks
 - Physics Manual Transistor Characteristics Public Domain eBooks
 - Physics Manual Transistor Characteristics eBook Subscription Services
 - Physics Manual Transistor Characteristics Budget-Friendly Options
6. Navigating Physics Manual Transistor Characteristics eBook Formats

- ePub, PDF, MOBI, and More
 - Physics Manual Transistor Characteristics Compatibility with Devices
 - Physics Manual Transistor Characteristics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics Manual Transistor Characteristics
 - Highlighting and Note-Taking Physics Manual Transistor Characteristics
 - Interactive Elements Physics Manual Transistor Characteristics
 8. Staying Engaged with Physics Manual Transistor Characteristics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Manual Transistor Characteristics
 9. Balancing eBooks and Physical Books Physics Manual Transistor Characteristics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Manual Transistor Characteristics
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Physics Manual Transistor Characteristics
 - Setting Reading Goals Physics Manual Transistor Characteristics
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Physics Manual Transistor Characteristics
 - Fact-Checking eBook Content of Physics Manual Transistor Characteristics
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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