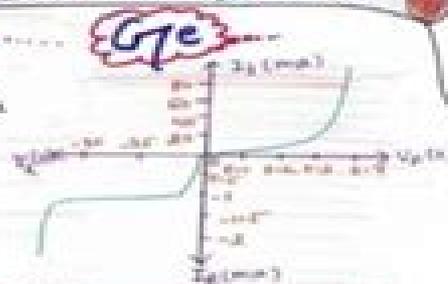


Basic Electronics

V-I CHARACTERISTICS OF SILICON AND GERMANIUM

FORWARD CHARACTERISTICS

- A very small forward current flows until the forward voltage exceeds 0.3V.
- When the forward voltage exceeds 0.3V, the current increases rapidly.

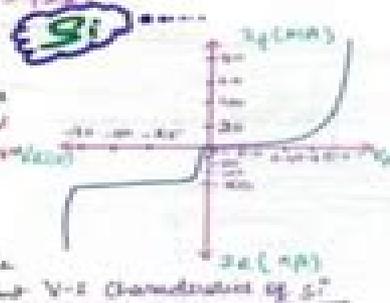


REVERSE CHARACTERISTICS

- When the applied reverse voltage is below the breakdown voltage, the diode current is very small, typically around 2mA (which is lower than the reverse current for a silicon diode).
- When the reverse voltage exceeds breakdown voltage (around 50V) the current ↑ very rapidly.
- Reverse breakdown voltage for Ge is less than that of Si from the characteristic $|I_r| \gg |I_s|$.

FORWARD CHARACTERISTICS

- A very small forward current flows until the forward voltage exceeds 0.7V.
- When the forward voltage exceeds 0.7V, the current increases rapidly.



REVERSE CHARACTERISTICS

- When the applied voltage below the breakdown voltage, the diode current is very small (around 100 nA).
- When the reverse voltage is exceeds breakdown voltage (around 70V) the current increases very rapidly.
- from the characteristic $|I_r| \gg |I_s|$.

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Daniel J. Shanefield



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various basic principles with applications from domestic to industrial the learner will have the feeling of this field Basic principles are explained without the use of complex mathematics and further understanding can be sought via dedicated computer animations Consolidated with several experiments it is very helpful for beginners and useful as a first practical course on power electronics for technical colleges and corporate in house training *Electronics for Industrial Design* M. Hajian, Delft University of Technology, Faculty of Industrial Design Engineering. Product Engineering Group, 2012

Industrial Electronics Colin David Simpson, 1996 Industrial Electronics provides a clearly written comprehensive treatment of topics in industrial electronics offering valuable information on state of the art equipment and control techniques used in the industry Broad in scope its unparalleled coverage spans all important areas in industrial electronics and supports concepts discussed mathematically where required The book was written for both two and four year programs in industrial electronics electronics or electrical technology readers will find its coverage of topics complete and will refer to this book again and again as a most valuable resource *Control of Power Inverters in Renewable Energy and Smart Grid Integration* Qing-Chang Zhong, Tomas Hornik, 2012-11-16 Integrating renewable energy and other distributed energy sources into smart grids often via power inverters is arguably the largest new frontier for smart grid advancements Inverters should be controlled properly so that their integration does not jeopardize the stability and performance of power systems and a solid technical backbone is formed to facilitate other functions and services of smart grids This unique reference offers systematic treatment of important control problems in power inverters and different general converter theories Starting at a basic level it presents conventional power conversion methodologies and then non conventional methods with a highly accessible summary of the latest developments in power inverters as well as insight into the grid connection of renewable power Consisting of four parts Power Quality Control Neutral Line Provision Power Flow Control and Synchronisation this book fully demonstrates the integration of control and power electronics Key features include the fundamentals of power processing and hardware design innovative control strategies to systematically treat the control of power inverters extensive experimental results for most of the control strategies presented the pioneering work on synchronverters which has gained IET Highly Commended Innovation Award Engineers working on inverter design and those at power system utilities can learn how advanced control strategies could improve system performance and work in practice The book is a useful reference for researchers who are interested in the area of control engineering power electronics renewable energy and distributed generation smart grids flexible AC transmission systems and power systems for more electric aircraft and all electric ships This is also a handy text for graduate students and university professors in the areas of electrical power engineering advanced control engineering power electronics renewable energy and smart grid integration *Electronics* M. Hajian, Delft University of Technology, Faculty of Industrial Design Engineering. Product Engineering Group, 2011

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