

Basic Electronics

V-I CHARACTERISTICS OF SILICON AND GERMANIUM

FORWARD CHARACTERISTICS

Ge

- 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 $|I_s| \gg |I_{s2}|$

V-I Characteristics of Ge

FORWARD CHARACTERISTICS

Si

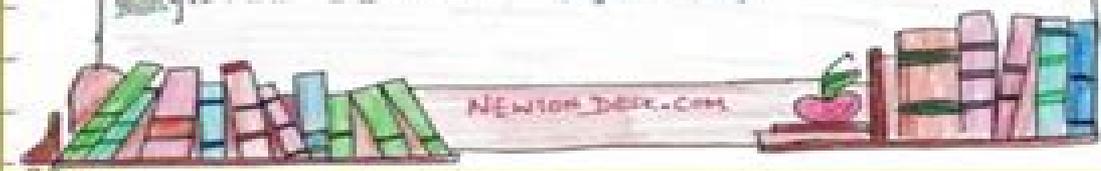
- A very small forward current flows until the forward voltage exceeds 0.7V
- When the forward voltage exceeds 0.7V, the current increases rapidly.



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 $|I_s| \gg |I_{s2}|$

V-I Characteristics of Si



Industrial Electronics Lecture Notes

Muhammad H. Rashid



Industrial Electronics Lecture Notes:

LECTURE NOTES ON POWER ELECTRONICS Amit Bhattacharyya,2015-12-04 Power Electronics is a field which combines Power electric power Electronics and Control systems Power engineering deals with the static and rotating power equipment for the generation transmission and distribution of electric power Electronics deals with the study of solid state semiconductor power devices and circuits for Power conversion to meet the desired control objectives to control the output voltage and output power Power electronics may be defined as the subject of applications of solid state power semiconductor devices Thyristors for the control and conversion of electric power Power electronics deals with the study and design of Thyristorised power controllers for a variety of applications like Heat control Light Illumination control Motor control AC DC motor drives used in industries High voltage power supplies Vehicle propulsion systems and High voltage direct current HVDC transmission

Power Electronics Handbook Muhammad H. Rashid,2010-07-19 Power electronics which is a rapidly growing area in terms of research and applications uses modern electronics technology to convert electric power from one form to another such as ac dc dc dc dc ac and ac ac with a variable output magnitude and frequency Power electronics has many applications in our every day life such as air conditioners electric cars sub way trains motor drives renewable energy sources and power supplies for computers This book covers all aspects of switching devices converter circuit topologies control techniques analytical methods and some examples of their applications 25% new content Reorganized and revised into 8 sections comprising 43 chapters Coverage of numerous applications including uninterruptable power supplies and automotive electrical systems New content in power generation and distribution including solar power fuel cells wind turbines and flexible transmission

Power Electronics and Renewable Energy Systems C. Kamalakannan,L. Padma Suresh,Subhransu Sekhar Dash,Bijaya Ketan Panigrahi,2014-11-19 The book is a collection of high quality peer reviewed research papers presented in the Proceedings of International Conference on Power Electronics and Renewable Energy Systems ICPERES 2014 held at Rajalakshmi Engineering College Chennai India These research papers provide the latest developments in the broad area of Power Electronics and Renewable Energy The book discusses wide variety of industrial engineering and scientific applications of the emerging techniques It presents invited papers from the inventors originators of new applications and advanced technologies

Practical Power Electronics Mustafa Husain,2015-12-17 Yes this is another book on power electronics but it is different Concise simple and animated Covering 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. Product Engineering Group,2014 Novel

Algorithms and Techniques in Telecommunications, Automation and Industrial Electronics Tarek Sobh, Khaled Elleithy, Ausif Mahmood, Mohammad A. Karim, 2008-08-15 Novel Algorithms and Techniques in Telecommunications Automation and Industrial Electronics includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Industrial Electronics Technology and Automation Telecommunications and Networking Novel Algorithms and Techniques in Telecommunications Automation and Industrial Electronics includes selected papers form the conference proceedings of the International Conference on Industrial Electronics Technology and Automation IETA 2007 and International Conference on Telecommunications and Networking TeNe 07 which were part of the International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2007 **Electronics for Industrial Design** M. Hajian, Delft University of Technology, Faculty of Industrial Design Engineering. Product Engineering Group, 2012 Industrial Electronics for Engineers, Chemists, and Technicians Daniel J. Shanefield, 2001-01-10 Turn to this multipurpose reference for a practical understanding of electronics in the factory or laboratory It s perfect for people who are not electrical engineers but who need to use electronic equipment every day at work Avoid or solve common problems in the use of electronics in the factory or lab and optimize the use of measurement and control equipment with this helpful resource The guide is easy to understand by anyone who has taken a high school physics course yet it provides quick specific solutions for such electronics issues as feedback oscillation ground loops impedance mismatch noise pickup and optimization of PID controllers Use Industrial Electronics as a hands on resource to handle typical electronics questions as they arise as a self study text to provide a broad background for understanding general electronics issues and design or even for an instructor led on the job training course in shop or lab electronics Because of the highly detailed explanations in the book instructors themselves do not need to be experts Of course the volume is perfect for use as a textbook in college and vocational school courses The laboratory experiments are optional and may be used merely as examples Components are inexpensive and can be obtained from consumer electronics stores such as Radio Shack or from electronics suppliers on the Web The circuit diagrams are greatly simplified and completely understandable with every component explained **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

Industrial Electronics, 1968 **Electronics** M. Hajian, Delft University of Technology, Faculty of Industrial Design Engineering. Product Engineering Group, 2011 **Research and Development in Electrical Sciences** Indian Institute of Science, 1984 Fundamentals of Industrial Electronics Bogdan M. Wilamowski, J. David Irwin, 2018-10-03 The Industrial Electronics Handbook Second Edition combines traditional and newer more specialized knowledge that will help industrial electronics engineers develop practical solutions for the design and implementation of high power applications Embracing the broad technological scope of the field this collection explores fundamental areas including analog and digital circuits electronics electromagnetic machines signal processing and industrial control and communications systems It also facilitates the use of intelligent systems such as neural networks fuzzy systems and evolutionary methods in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components Enhancing its value this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal one of the largest and most respected publications in the field Fundamentals of Industrial Electronics covers the essential areas that form the basis for the field This volume presents the basic knowledge that can be applied to the other sections of the handbook Topics covered include Circuits and signals Devices Digital circuits Digital and analog signal processing Electromagnetics Other volumes in the set Power Electronics and Motor Drives Control and Mechatronics Industrial Communication Systems Intelligent Systems **College of Engineering** Cornell University. College of Engineering, 1955 *Electronic Engineering*, 1974 *Proceedings of the ... International Conference on Power Electronics, Drives and Energy Systems for Industrial Growth*, 1996 *General Catalog* Georgia Institute of Technology, 1954 *Course Notes*, 1995 *Radio-electronics*, 1963 *Subject Guide to Books in Print*, 2001

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