

CHAPTER 2
POWER SEMICONDUCTOR DIODES AND CIRCUITS

Problem 2-1

$t_{rr} = 5 \mu\text{s}$ and $di/dt = 80 \text{ A}/\mu\text{s}$

(a) From Eq. (2-10),

$$Q_{RR} = 0.5 (di/dt) t_{rr}^2 = 0.5 \times 80 \times 5^2 \times 10^{-6} = 1000 \mu\text{C}$$

(b) From Eq. (2-11),

$$I_{RR} = \sqrt{2Q_{RR} \frac{di}{dt}} = \sqrt{2 \times 1000 \times 80} = 400 \text{ A}$$

Problem 2-2

$V_T = 25.8 \text{ mV}$, $V_{D1} = 1.0 \text{ V}$ at $I_{D1} = 50 \text{ A}$, and $V_{D2} = 1.5 \text{ V}$ at $I_{D2} = 600 \text{ A}$

Taking natural (base e) logarithm on both sides of Eq. (2-3),

$$\ln I_D = \ln I_S + \frac{v_D}{\eta V_T}$$

which, after simplification, gives the diode voltage V_D as

$$v_D = \eta V_T \ln \left(\frac{I_D}{I_S} \right)$$

If I_{D1} is the diode current corresponding to diode voltage V_{D1} , we get

$$V_{D1} = \eta V_T \ln \left(\frac{I_{D1}}{I_S} \right)$$

Similarly, if V_{D2} is the diode voltage corresponding to the diode current I_{D2} , we get

$$V_{D2} = \eta V_T \ln \left(\frac{I_{D2}}{I_S} \right)$$

Therefore, the difference in diode voltages can be expressed by

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Problems and Solutions in Power Electronics Gopal,2008-02-01 [Power Electronics and Electric Drives for Traction Applications](#) Gonzalo Abad,2016-11-14 Power Electronics and Electric Drives for Traction Applications offers a practical approach to understanding power electronics applications in transportation systems ranging from railways to electric vehicles and ships It is an application oriented book for the design and development of traction systems accompanied by a description of the core technology The first four introductory chapters describe the common knowledge and background required to understand the preceding chapters After that each application specific chapter highlights the significant manufacturers involved provides a historical account of the technological evolution experienced distinguishes the physics and mechanics and where possible analyses a real life example and provides the necessary models and simulation tools block diagrams and simulation based validations Key features Surveys power electronics state of the art in all aspects of traction applications Presents vital design and development knowledge that is extremely important for the professional community in an original simple clear and complete manner Offers design guidelines for power electronics traction systems in high speed rail ships electric hybrid vehicles elevators and more applications Application specific chapters co authored by traction industry expert Learning supplemented by tutorial sections case studies and MATLAB Simulink based simulations with data from practical systems A valuable reference for application engineers in traction industry responsible for design and development of products as well as traction industry researchers developers and graduate students on power electronics and motor drives needing a reference to the application examples [Entrepreneurship in Power Semiconductor Devices, Power Electronics, and Electric Machines and Drive Systems](#) Krishnan Ramu,2020-12-07 Entrepreneurship in Power Semiconductor Devices Power Electronics and Electric Machines and Drive Systems introduces the basics of entrepreneurship and a methodology for the study of entrepreneurship in electrical engineering and other engineering fields Entrepreneurship is considered here in three fields of electrical engineering viz power semiconductor devices power electronics and electric machines and drive systems and their current practice It prepares the reader by providing a review of the subject matter in the three fields their current status in research and development with analysis aspect as needed thus allowing readers to gain self sufficiency while reading the book Each field s emerging applications current market and future market forecasts are introduced to understand the basis and need for emerging startups Practical learning is introduced in i power semiconductor devices entrepreneurship through the prism of 20 startups in detail ii power electronics entrepreneurship through 28 startup companies arranged under various application fields and iii electric machines and drive systems entrepreneurship through 15 startups in electromagnetic and 1 in electrostatic machines and drive systems The book i demystifies entrepreneurship in a practical way to equip engineers and students with entrepreneurship as an option for their professional growth pursuit and success ii provides engineering managers and corporate level executives a detailed view of

entrepreneurship activities in the considered three fields that may potentially impact their businesses iii provides entrepreneurship education in an electrical engineering environment and with direct connection and correlation to their fields of study and iv endows a methodology that can be effectively employed not only in the three illustrated fields of electrical engineering but in other fields as well This book is for electrical engineering students and professionals For use in undergraduate and graduate courses in electrical engineering the book contains discussion questions exercise problems team and class projects all from a practical point of view to train students and assist professionals for future entrepreneurship endeavors

Electronic Instrumentation for Distributed Generation and Power Processes Felix Alberto Farret, Marcelo Godoy Simões, Danilo Iglesias Brandão, 2017-08-16 The goal of the book is to provide basic and advanced knowledge of design analysis and circuit implementation for electronic instrumentation and clarify how to get the best out of the analog digital and computer circuitry design steps The reader will learn the physical fundamentals guiding the electrical and mechanical devices that allow for a modern automation and control system which are widely comprised of computers electronic instrumentation communication loops smart grids and digital circuitry It includes practical and technical data on electronic instrumentation with respect to efficiency maximum power and applications Additionally the text discusses fuzzy logic and neural networks and how they can be used in practice for electronic instrumentation of distributed generation smart grids and power systems

Nonsmooth Modeling and Simulation for Switched Circuits Vincent Acary, Olivier Bonnefon, Bernard Brogliato, 2010-10-19 Nonsmooth Modeling and Simulation for Switched Circuits concerns the modeling and the numerical simulation of switched circuits with the nonsmooth dynamical systems NSDS approach using piecewise linear and multivalued models of electronic devices like diodes transistors switches Numerous examples ranging from introductory academic circuits to various types of power converters are analyzed and many simulation results obtained with the INRIA open source SICONOS software package are presented Comparisons with SPICE and hybrid methods demonstrate the power of the NSDS approach Nonsmooth Modeling and Simulation for Switched Circuits is intended to researchers and engineers in the field of circuits simulation and design but may also attract applied mathematicians interested by the numerical analysis for nonsmooth dynamical systems as well as researchers from Systems and Control

Transmission, Distribution, and Renewable Energy Generation Power Equipment Bella H. Chudnovsky, 2017-03-07 The revised edition presents extends and updates a thorough analysis of the factors that cause and accelerate the aging of conductive and insulating materials of which transmission and distribution electrical apparatus is made New sections in the second edition summarize the issues of the aging reliability and safety of electrical apparatus as well as supporting equipment in the field of generating renewable energy solar wind tide and wave power When exposed to atmospheric corrosive gases and fluids contaminants high and low temperatures vibrations and other internal and external impacts these systems deteriorate eventually the ability of the apparatus to function properly is destroyed In the modern world of green energy the equipment

providing clean electrical energy needs to be properly maintained in order to prevent premature failure The book s purpose is to help find the proper ways to slow down the aging of electrical apparatus improve its performance and extend the life of power generation transmission and distribution equipment

Principles of Power Electronics John G. Kassakian, Martin F. Schlecht, George C. Verghese, 1991-01-01 *Power Electronics, Problems Manual* F. Czaki, I. Herman, I. Ipsits, 1979-01-01

Electrical & Electronics Abstracts ,1997 **A Hundred Solved Problems in Power Electronics** Euzeli dos Santos, Gregory Carlos, 2015-12-29 A Hundred Solved Problems in Power Electronics presents a large collection of questions and their answers for someone who is interested in understanding the operation principle of power electronics converters By creating a real engineering environment around the question the goal of this book is to contribute on the development of a qualified electrical engineering workforce By using engineering language and technical terminology jargon this book deals primarily with the challenge of designing power converters for specific applications This includes but is not limited to personal computer power supply regulated voltage source and interconnection of renewable energy sources Since engineering is the application of science to practical use the link with a real world activity fills the gap between theory and practical application and increases the curiosity of the students Before each question there is a short text explaining the purpose of that specific problem and how it is associated with real world conditions The majority of the questions in this book follow a logical sequence which is an attempt to demonstrate the step by step process of a power electronics converter design Indeed the purpose of this book is to present a more exciting type of question and show how the theory in power electronics is related to real world problems Rather than just plugging in numbers for a given equation this book shows practical examples on how to use scientific and technical knowledge to make operate and maintain complex systems Although engineering is one of the professions that actually allows someone to build and create something that could eventually change the life of people e g personal computer or satellite there is sometimes a lack of motivation from the students in the classroom It is quite clear that the students are comfortable with math especially at the senior level Therefore the lack of motivation is not due to background deficiency Instead the discouragement increases when students do not correlate the subject taught with their future professional activities Also the way traditional lectures are set up with theory presentation followed by examples where students just need to plug in the given data into specific equations does not keep students interest and attention In fact the moment of solving a specific problem in a traditional way to teach comes down to this question what s the equation that I need to use to plug these given numbers This is stimulated by the way the problems are designed We hope that this book offers an alternative on how the students view and address the problems in power electronics This book is a desirable didactic material to be employed as a reference book instead of a text book from which the instructor prepares his her lecture Notice that the terminology used in A Hundred Solved Problems in Power Electronics is not necessarily the same as the one seen in either the text book or from the instructor lectures This is actually a benefit for

the students in electrical engineering since they will learn different terms for the same component or electrical element. Certainly this difference in nomenclature will be seen by the students as an advantage when they are reading technical datasheets and realize that manufacturers often use different terms for the same information. By dividing this book into five parts, the authors compile the solved problems into the following categories: 1 Converters with power diodes, 2 SCR converters, 3 Dc dc converters, 4 Dc ac converters, 5 Isolated dc ac converters. Such a book structure follows the same sequence of topics as most power electronics books in the technical literature which simplifies the use of *A Hundred Solved Questions in Power Electronics* as a recommended book in parallel with other references.

Power Electronics Kjeld Thorborg, 1993-01. This book provides a functional engineering approach to the subject, emphasising components, basic analysis of circuits and problem solving techniques based on simple approximations. Written primarily as an undergraduate textbook, it is also a useful reference and refresher text for professional engineers. Features include: Coverage of semiconductor components, passive components such as capacitors, coils, transformers, fuses and resistors, power circuits and filters. Sections dealing with mathematical methods, asynchronous motors, reliability and electrical noise. A chapter detailing the basic building blocks for control electronics. Description of classical thyristor circuits as well as new circuits not yet in common use, together with an evaluation of the advantages and disadvantages of differing circuits. Numerous worked examples and problems with solutions, together with appendices which include mathematics adapted for power electronics usage.

Power Electronics. Problems Manual, 1979 *American Journal of Physics*, 2002

Courses and Programs

Iowa State University, 1999 *Mini-micro Systems*, 1978 *Power Electronics: Problems Manual* Frigyes Csáki, 1975

Proceedings of the ... Annual Conference of the IEEE Industrial Electronics Society IEEE Industrial Electronics Society. Conference, 2004

Principles of Power Electronics John G. Kassakian, David J. Perreault, George C. Verghese, Martin F. Schlecht, 2023-08-03. Substantially expanded and updated, the new edition of this classic textbook provides unrivalled coverage of the fundamentals of power electronics. Comprehensive coverage of foundational concepts in circuits, magnetics, devices, dynamic models and control, establishes a strong conceptual framework for further study. Extensive discussion of contemporary practical considerations, enhanced by real world examples, prepares readers for design scenarios ranging from low power dc dc converters to multi megawatt ac machine drives. New topics include SiC and GaN wide bandgap materials, superjunction MOSFET and IGBT devices, advanced magnetics design, multi level and switched capacitor converters, RF converter circuits and EMI. Over 300 new and revised end of chapter problems enhance and expand understanding of the material, with solutions for instructors. Unique in its breadth and depth, and providing a range of flexible teaching pathways at multiple levels, this is the definitive guide to power electronics for graduate and senior undergraduate students in electrical engineering and practicing electrical engineers.

Elements of Power Electronics Philip T. Krein, 1998. Power electronics is an enabling technology for almost all electrical applications. The field is growing rapidly.

because electrical devices need electronic circuits to process their energy Elements of Power Electronics the first undergraduate book to discuss this subject in a conceptual framework provides comprehensive coverage of power electronics at a level suitable for undergraduate student engineers students in advanced degree programs and novices in the field It aims to establish a fundamental engineering basis for power electronics analysis design and implementation offering broad and in depth coverage of basic material The text s unifying framework includes the physical implications of circuit laws switching circuit analysis and the basis for converter operation and control Dc dc ac dc dc ac and ac ac conversion tasks are examined and principles of resonant converters and discontinuous converters are discussed Models for real devices and components are developed in depth including models for real capacitors inductors wire connections and power semiconductors Magnetic device design is introduced and thermal management and drivers for power semiconductors are addressed Control system aspects of converters are discussed and both small signal and geometric controls are explored Many examples show ways to use modern computer tools such as Mathcad Matlab and Mathematica to aid in the analysis and design of conversion circuits Featuring a fundamental approach to power electronics coupled with extensive discussion of design and implementation issues Elements of Power Electronics serves as an ideal text for courses in power electronics and as a helpful guide for engineers new to the field Special features of the text include More than 160 examples particularly design examples and 350 chapter problems that support the presented concepts An extensive World Wide Web site http://power.ece.uiuc.edu/krein_text which includes additional problems laboratory materials selected solutions for students computer based examples analysis tools for Mathcad Matlab and Mathematica and author contact A solutions manual which will be made available to registered faculty via both the World Wide Web site http://power.ece.uiuc.edu/krein_text and an ftp site ftp://power.ece.uiuc.edu/krein_text *Solutions Manual - Power Electronics* M. H. Rashid,2003-12

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