

CHAPTER 1

PJP.1.1 A proton has 1.602×10^{-19} C. Hence, 2 million protons have
 $+1.602 \times 10^{-19} \times 2 \times 10^6 = \underline{3.204 \times 10^{-13} \text{ C}}$

PJP.1.2 $i = dq/dt = +10(-2t)^{-2} \text{ mA}$

At $t = 0.5 \text{ sec}$, $i = 20t^{-1} = \underline{7.558 \text{ mA}}$

PJP.1.3 $q = \int i dt = \int_0^1 2 dt + \int_1^2 2t^{-2} dt = 2t \Big|_0^1 + (-2/3)t^{-1} \Big|_1^2$
 $= 2 + 14/3 = \underline{6.667 \text{ C}}$

PJP.1.4 (a) $V_{ab} = w/q = -30/2 = \underline{-15 \text{ V}}$

The negative sign indicates that point a is at higher potential than point b.

(b) $V_{ab} = w/q = -30/-6 = \underline{5 \text{ V}}$

PJP.1.5 (a) $v = 2t = 10 \cos(60\pi t)$

$p = vt = 50 \cos^2(60\pi t)$

At $t = 5 \text{ ms}$, $p = 50 \cos^2(60\pi \times 5 \times 10^{-3}) = 50 \cos^2(0.3\pi)$
 $= \underline{17.27 \text{ watts}}$

(b) $v = 10 + 5 \int_0^t \sin \omega t dt = 10 + \int_0^t 25 \cos 60\pi t dt = 10 + \frac{25}{60\pi} \sin 60\pi t$

$p = vt = 5 \cos(60\pi t) \{ 10 + (25/60\pi) \sin(60\pi t) \}$

At $t = 5 \text{ ms}$, $p = 5 \cos(0.3\pi) \{ 10 + (25/60\pi) \sin(0.3\pi) \}$
 $= \underline{25.7 \text{ watts}}$

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Bogdan Adamczyk



Sadiku Solution Chapter 4 Second Edition:

Numerical Techniques in Electromagnetics, Second Edition Matthew N.O. Sadiku, 2000-07-12 As the availability of powerful computer resources has grown over the last three decades the art of computation of electromagnetic EM problems has also grown exponentially Despite this dramatic growth however the EM community lacked a comprehensive text on the computational techniques used to solve EM problems The first edition of *Numerical Techniques in Electromagnetics* filled that gap and became the reference of choice for thousands of engineers researchers and students The Second Edition of this bestselling text reflects the continuing increase in awareness and use of numerical techniques and incorporates advances and refinements made in recent years Most notable among these are the improvements made to the standard algorithm for the finite difference time domain FDTD method and treatment of absorbing boundary conditions in FDTD finite element and transmission line matrix methods The author also added a chapter on the method of lines *Numerical Techniques in Electromagnetics* continues to teach readers how to pose numerically analyze and solve EM problems give them the ability to expand their problem solving skills using a variety of methods and prepare them for research in electromagnetism Now the Second Edition goes even further toward providing a comprehensive resource that addresses all of the most useful computation methods for EM problems

Numerical Techniques in Electromagnetics with MATLAB Matthew N.O. Sadiku, 2018-10-08 Despite the dramatic growth in the availability of powerful computer resources the EM community lacks a comprehensive text on the computational techniques used to solve EM problems The first edition of *Numerical Techniques in Electromagnetics* filled that gap and became the reference of choice for thousands of engineers researchers and students This third edition of the bestselling text reflects the continuing increase in awareness and use of numerical techniques and incorporates advances and refinements made in recent years Most notable among these are the improvements made to the standard algorithm for the finite difference time domain FDTD method and treatment of absorbing boundary conditions in FDTD finite element and transmission line matrix methods The author also has added a chapter on the method of lines *Numerical Techniques in Electromagnetics with MATLAB Third Edition* continues to teach readers how to pose numerically analyze and solve EM problems to give them the ability to expand their problem solving skills using a variety of methods and to prepare them for research in electromagnetism Now the Third Edition goes even further toward providing a comprehensive resource that addresses all of the most useful computation methods for EM problems and includes MATLAB code instead of FORTRAN

Elements of Electromagnetics Matthew N. O. Sadiku, Sudarshan Nelatury, 2020-07-27 Using a vectors first approach *Elements of Electromagnetics Seventh Edition* covers electrostatics magnetostatics fields waves and applications like transmission lines waveguides and antennas The text also provides a balanced presentation of time varying and static fields preparing students for employment in today's industrial and manufacturing sectors

Analytical and Computational Methods in Electromagnetics Ramesh Garg, 2008 This authoritative resource offers you clear and complete

explanation of this essential electromagnetics knowledge providing you with the analytical background you need to understand such key approaches as MoM method of moments FDTD Finite Difference Time Domain and FEM Finite Element Method and Green's functions This comprehensive book includes all math necessary to master the material Emerging Smart Technologies Dr. Matthew N. O. Sadiku, 2021-03-04 We live in a world with an abundance of technologies and the technologies are developing and improving rapidly Technologies are transforming our lifestyles social interactions and workplaces Nearly everyone in the developed nations possesses multiple electronic gadgets cell phones tablets personal computers laptops digital notebooks etc Daily use of technology has evolved Recent advances in the field of technology have led to the emergence of innovative solutions known as smart technologies A technology is considered smart if it performs a task that an intelligent person can do A smart or intelligent technology is a self-operative and corrective system that requires little or no human intervention Smart technologies can be understood as a generalization of the concept of smart structures and the use of digital and communications technologies They have given us new powerful tools to work Application of such technologies can transform the conventional cities into smart cities conventional home into smart home conventional farming into smart farming etc Today we are in an era where everything is expected to be smart Common examples include smart cities smart factory smart agriculture smart farming smart healthcare smart university smart medication smart water smart food smart materials smart devices smart phones smart grid smart energy smart homes smart buildings smart metering smart appliances smart equipment smart heating controls smart lighting systems smart watch smart economy smart environment smart grids smart transportation smart mobility smart manufacturing smart living smart environment smart people etc These technologies will ensure equity fairness and realize a better quality of life The combined autonomy and ambience of smart technologies simultaneously provides the conduit through which our choices are affected These smart technologies go hand in hand with a new technology called the Internet of things IoT *Monte Carlo Methods for Electromagnetics* Matthew N.O. Sadiku, 2018-10-03 Until now novices had to painstakingly dig through the literature to discover how to use Monte Carlo techniques for solving electromagnetic problems Written by one of the foremost researchers in the field Monte Carlo Methods for Electromagnetics provides a solid understanding of these methods and their applications in electromagnetic computation Including much of his own work the author brings together essential information from several different publications Using a simple clear writing style the author begins with a historical background and review of electromagnetic theory After addressing probability and statistics he introduces the finite difference method as well as the fixed and floating random walk Monte Carlo methods The text then applies the Exodus method to Laplace's and Poisson's equations and presents Monte Carlo techniques for handling Neumann problems It also deals with whole field computation using the Markov chain applies Monte Carlo methods to time-varying diffusion problems and explores wave scattering due to random rough surfaces The final chapter covers multidimensional integration Although

numerical techniques have become the standard tools for solving practical complex electromagnetic problems there is no book currently available that focuses exclusively on Monte Carlo techniques for electromagnetics Alleviating this problem this book describes Monte Carlo methods as they are used in the field of electromagnetics **Computational Electromagnetics with MATLAB, Fourth Edition** Matthew N.O. Sadiku, 2018-07-20 This fourth edition of the text reflects the continuing increase in awareness and use of computational electromagnetics and incorporates advances and refinements made in recent years Most notable among these are the improvements made to the standard algorithm for the finite difference time domain FDTD method and treatment of absorbing boundary conditions in FDTD finite element and transmission line matrix methods It teaches the readers how to pose numerically analyze and solve EM problems to give them the ability to expand their problem solving skills using a variety of methods and to prepare them for research in electromagnetism Includes new homework problems in each chapter Each chapter is updated with the current trends in CEM Adds a new appendix on CEM codes which covers commercial and free codes Provides updated MATLAB code Microwave Circuit Modeling Using Electromagnetic Field Simulation Daniel G. Swanson, Wolfgang J. R. Hoefer, 2003 Annotation This practical how to book is an ideal introduction to electromagnetic field solvers Where most books in this area are strictly theoretical this unique resource provides engineers with helpful advice on selecting the right tools for their RF radio frequency and high speed digital circuit design work *Hybrid Polymeric Systems for Biomedical Applications* Emmanuel Rotimi Sadiku, Blessing A. Aderibigbe, 2024-11-27 Hybrid Polymeric Systems for Biomedical Applications explores the development and utilization of hybrid polymeric systems for use in a range of biomedical applications Hybrid systems combine the specialized properties of each polymer type to produce a more targeted material which is much more tightly aligned with the intended application and outcome This book covers a broad selection of hybrid polymeric systems as well as a variety of key biomedical applications including tissue engineering drug delivery wound healing and more Details polymeric and hybrid biomaterials used for the development of scaffolds for various biomedical applications including drug delivery systems vaccine development tissue regeneration diagnostic applications wound dressings brain targeting and cosmetic surgery Covers the design synthesis challenges and advantages of hybrid polymeric materials for biomedical applications Provides a comprehensive look at how hybrid materials can be used in place of traditional materials to ensure unique property sets for targeted applications Feedstock Technology for Reactive Metal Injection Molding Peng Cao, Muhammad Dilawer Hayat, 2020-06-16 Feedstock Technology for Reactive Metal Injection Molding Process Design and Application provides an authoritative guide on the basics of feedstock technology and the latest developments in binders for titanium metal injection moulding and their potential implications In addition the book presents challenges that MIM technology of reactive metals is currently facing and potential solutions for commercial success As both commercial growth and research development are fundamentally driven by the economics of manufacture this book presents the problems and potential

solutions regarding reactive metals making it a valuable resource for engineers intending to utilize MIM in commercial product design Provides comprehensive details and case studies on the feedstocks currently under extensive development in research and in the commercial domain Discusses the most recent developments of binder chemistry and design along with the most critical challenges in MIM technology Includes comprehensive evaluations with regard to feedstock characterization and impurity control **Advanced Modeling in Computational Electromagnetic Compatibility** Dragan

Poljak,2007-02-26 This text combines the fundamentals of electromagnetics with numerical modeling to tackle a broad range of current electromagnetic compatibility EMC problems including problems with lightning transmission lines and grounding systems It sets forth a solid foundation in the basics before advancing to specialized topics and allows readers to develop their own EMC computational models for applications in both research and industry *Hardware Security* Swarup

Bhunia,Mark M. Tehranipoor,2018-10-30 Hardware Security A Hands On Learning Approach provides a broad comprehensive and practical overview of hardware security that encompasses all levels of the electronic hardware infrastructure It covers basic concepts like advanced attack techniques and countermeasures that are illustrated through theory case studies and well designed hands on laboratory exercises for each key concept The book is ideal as a textbook for upper level undergraduate students studying computer engineering computer science electrical engineering and biomedical engineering but is also a handy reference for graduate students researchers and industry professionals For academic courses the book contains a robust suite of teaching ancillaries Users will be able to access schematic layout and design files for a printed circuit board for hardware hacking i e the HaHa board that can be used by instructors to fabricate boards a suite of videos that demonstrate different hardware vulnerabilities hardware attacks and countermeasures and a detailed description and user manual for companion materials Provides a thorough overview of computer hardware including the fundamentals of computer systems and the implications of security risks Includes discussion of the liability safety and privacy implications of hardware and software security and interaction Gives insights on a wide range of security trust issues and emerging attacks and protection mechanisms in the electronic hardware lifecycle from design fabrication test and distribution straight through to supply chain and deployment in the field A full range of instructor and student support materials can be found on the authors own website for the book <http://hwsecuritybook.org> **Radar and Laser Cross Section Engineering** David C.

Jenn,2005 There have been many new developments in the ten years since the first edition of Radar and Laser Cross Section Engineering was published Stealth technology is now an important consideration in the design of all types of platforms The second edition includes a more extensive introduction that covers the important aspects of stealth technology and the unique tradeoffs involved in stealth design Prediction reduction and measurement of electromagnetic scattering from complex three dimensional targets remains the primary emphasis of this text developed by the author from courses taught at the Naval Postgraduate School New topics on computational methods like the finite element method and the finite integration

technique are covered as well as new areas in the application of radar absorbing material and artificial metamaterials Matlab registered software homework problems and a solution manual available to instructors supplement the text Written as an instructional text this book is recommended for upper level undergraduate and graduate students introduction to the physics and mathematics of radar cross section in order to better understand the interdisciplinary aspects of stealth Matlab is a registered trademark of The MathWorks Inc

Emerging Technologies in Africa Matthew N. O. Sadiku, 2025-10-21 Africa is a booming continent with incredible growth potential and is the second largest continent in the world The continent is home to immense potential and abundant resources It is also the home to some of the youngest populations in the world The continent is not just catching up with the world it is propelling itself to the forefront of innovation Africa is closely watched as the next big growth market Technologies impact every aspect of our modern society African economies have been held back from their full potential but the emerging technologies could help change that The technologies have been gaining a lot of attention from businesses investors educators and governments across Africa They are having an influence on African lives well being and resilience They have come to be perceived as a groundbreaking method that can bypass the several systemic flaws affecting the continent This book explores the use of emerging technologies in Africa These technologies include artificial intelligence robotics 3D printing cloud computing nanotechnology Internet of things blockchain and drones The book is organized into ten chapters that summarize these technologies and their adoption in African nations It is a must read for those interested in the socio economic development of Africa

The RF and Microwave Handbook Mike Golio, 2000-12-20 The recent shift in focus from defense and government work to commercial wireless efforts has caused the job of the typical microwave engineer to change dramatically The modern microwave and RF engineer is expected to know customer expectations market trends manufacturing technologies and factory models to a degree that is unprecedented in the

Introduction to Transients in Electrical Circuits José Carlos Goulart de Siqueira, Benedito Donizeti Bonatto, 2021-08-13 This book integrates analytical and digital solutions through Alternative Transients Program ATP software recognized for its use all over the world in academia and in the electric power industry utilizing a didactic approach appropriate for graduate students and industry professionals alike This book presents an approach to solving singular function differential equations representing the transient and steady state dynamics of a circuit in a structured manner and without the need for physical reasoning to set initial conditions to zero plus 0 It also provides for each problem presented the exact analytical solution as well as the corresponding digital solution through a computer program based on the Electromagnetics Transients Program EMTP Of interest to undergraduate and graduate students as well as industry practitioners this book fills the gap between classic works in the field of electrical circuits and more advanced works in the field of transients in electrical power systems facilitating a full understanding of digital and analytical modeling and solution of transients in basic circuits

Nanostructured Polymer Blends Goddeti Siva Mohan Reddy, Jaragula

Jayaramudu, Kokkarachedu Varaprasad, Rotimi Sadiku, Shanavas Abdul Jailani, Blessing Atim Aderibigbe, 2013-11-28 Liquid crystals constitute a fascinating class of soft condensed matter characterized by the counterintuitive combination of fluidity and long range order Today liquid crystals are best known for their exceptionally successful application in flat panel displays but they actually exhibit a plethora of unique and attractive properties that offer tremendous potential for fundamental science as well as innovative applications well beyond the realm of displays This full breadth of the liquid crystalline state of matter is becoming increasingly recognized and numerous new and exciting lines of research are being opened up In this chapter we look at these exciting developments focusing primarily on the physics aspects of the new research thrusts in which thermotropic as well as lyotropic liquid crystals often meet other types of soft matter such as polymers and colloidal nano or microparticle dispersions Because the field is also of interest for researchers who may not have a liquid crystal background we begin with a concise introduction to the liquid crystalline state of matter and the key concepts of the research field We then discuss nanostructured liquid crystals followed by applications of nanostructured liquid crystals

Injectable Smart Hydrogels for Biomedical Applications Jagan Mohan Dodda, Nureddin Ashammakhi, Emmanuel Rotimi Sadiku, 2024-07-19 Injectable smart hydrogels possess various properties that enable the development of new minimally invasive approaches to avoid problems associated with traditional implants Researchers in academia and industry will learn the range of synthetic strategies used to produce this emerging class of biomaterials Clinicians will also be inspired by the range of applications demonstrated to advance surgical procedures The editors have brought together a global authorship to ensure that this book presents the state of the art in materials engineering and therapeutics Their knowledge and experience will help the reader develop better knowledge of the field and inspire new innovations that cover a range of areas such as regenerative medicine cancer therapy and drug delivery

Foundations of Electromagnetic Compatibility Bogdan Adamczyk, 2017-02-14 There is currently no single book that covers the mathematics circuits and electromagnetics backgrounds needed for the study of electromagnetic compatibility EMC This book aims to redress the balance by focusing on EMC and providing the background in all three disciplines This background is necessary for many EMC practitioners who have been out of study for some time and who are attempting to follow and confidently utilize more advanced EMC texts The book is split into three parts Part 1 is the refresher course in the underlying mathematics Part 2 is the foundational chapters in electrical circuit theory Part 3 is the heart of the book electric and magnetic fields waves transmission lines and antennas Each part of the book provides an independent area of study yet each is the logical step to the next area providing a comprehensive course through each topic Practical EMC applications at the end of each chapter illustrate the applicability of the chapter topics The Appendix reviews the fundamentals of EMC testing and measurements

Compact Models and Measurement Techniques for High-Speed Interconnects Rohit Sharma, Tapas Chakravarty, 2012-02-17 Compact Models and Measurement Techniques for High Speed Interconnects provides detailed analysis of issues related to high speed

interconnects from the perspective of modeling approaches and measurement techniques Particular focus is laid on the unified approach variational method combined with the transverse transmission line technique to develop efficient compact models for planar interconnects This book will give a qualitative summary of the various reported modeling techniques and approaches and will help researchers and graduate students with deeper insights into interconnect models in particular and interconnect in general Time domain and frequency domain measurement techniques and simulation methodology are also explained in this book

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