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There is a growing need to understand and combat potential radiation damage problems in semiconductor devices and circuits. Assessing the billion-dollar market for detection equipment in the context of medical imaging using ionizing radiation, Electronics for Radiation Detection presents valuable information that will help integrated circuit (IC) designers and other electronics professionals take full advantage of the tremendous developments and opportunities associated with this burgeoning field. Assembling contributions from industrial and academic experts, this book— Addresses the state of the art in the design of semiconductor detectors, integrated circuits, and other electronics used in radiation detection Analyzes the main effects of radiation in semiconductor devices and circuits, paying special attention to degradation observed in MOS devices and circuits when they are irradiated Explains how circuits are built to deal with radiation, focusing on practical information about how they are being used, rather than mathematical details Radiation detection is critical in space applications, nuclear physics, semiconductor processing, and medical imaging, as well as security, drug development, and modern silicon processing techniques. The authors discuss new opportunities in these fields and address emerging detector technologies, circuit design techniques, new materials, and innovative system approaches. Aimed at postgraduate researchers and practicing engineers, this book is a must for those serious about improving their

understanding of electronics used in radiation detection. The information presented here can help you make optimal use of electronic detection equipment and stimulate further interest in its development, use, and benefits.

The quieter you become, the more you are able to hear. Are you looking to teach children how to code? Or are you looking to start coding? This book on beginner html and JavaScript is the answer. For the last couple of years, the news keeps talking about the digital economy and how everyone needs programmers. It seems like everyone wants to learn how to code. However, it is not that easy. Coding is a skill; and like any skill it takes time to learn. Like any skill, the younger you start; the better you get. From my personal experience with coding and also with teaching young kids how to code, let me tell you that coding is a lot of fun and extremely gratifying. It teaches you how to organize, think logically, communicate, work in teams and be more creative. However, programming can be hard to learn. Especially if you start reading advanced books. You need a step-by-step guide to get started. This book starts off with the very basics; how to install the software, set up and write your first lines of code. There are exercises at the end of each chapter that can test your new found knowledge and move you ahead. And then, we get you a few more advanced skills that can get you started making websites. Even if you've never touched a computer in your life, you will find this book useful. Scroll up and Click 'Add to Cart' Now

Semiconductor Radiation Detection Systems addresses

the state-of-the-art in the design of semiconductor detectors and integrated circuit design, in the context of medical imaging using ionizing radiation. It addresses exciting new opportunities in X-ray detection, Computer Tomography (CT), bone dosimetry, and nuclear medicine (PET, SPECT). In addition to medical imaging, the book explores other applications of semiconductor radiation detection systems in security applications such as luggage scanning, dirty bomb detection, and border control. Features a chapter written by well-known Gamma-Ray Imaging authority Tadayuki Takahashi Assembled by a combination of top industrial experts and academic professors, this book is more than just a product manual. It is practical enough to provide a solid explanation of presented technologies, incorporating material that offers an optimal balance of scientific and academic theory. With less of a focus on math and physical details, the author concentrates more on exploring exactly how technologies are being used. With its combined coverage of new materials and innovative new system approaches, as well as a succinct overview of recent developments, this book is an invaluable tool for any engineer, professional, or student working in electronics or an associated field.
Solutions to all Exercises in Let Us Python, Cross-check Your Solutions DESCRIPTION Practice! That is what Python Programming is all about. To be able to master Python you need to practise writing a large number of programs in it. As you try to do so, you would find that there are multiple ways of writing any program. So you need to find out whether you have chosen the best way

to implement your program. ThatÕs where you would find this book useful. Ê ÔLet Us PythonÕ contains exercises at the end of each chapter. Solving these exercises would help you build your Python skills. As you do so, many of you would feel the need for a trusted companion who will ratify your answers and programs. ÔLet Us Python SolutionsÕ will be that trusted companion. It will help you validate your answers and teach you how to write better Python programs. Ê KEY FEATURES - Strengthens the foundations, as detailed explanation of programming language concepts are given in simple manner.ÊÊÊÊÊÊÊÊÊÊÊ - Lists down all the important points that you need to know related to various topics in an organized manner. - Prepares you for coding related interview and theoretical questions. - Provides In depth explanation of complex topics and Questions. - Focuses on how to think logically to solve a problem. - Follows a systematic approach that will help you to prepare for an interview in short duration of time. - Exercises are exceptionally useful to complete the readerÕs understanding of a topic. Ê WHAT WILL YOU LEARN 1. Data types, Control flow instructions, consoleÊ & File Input/Output 2. Strings, list & tuples, List comprehension 3. Sets & Dictionaries, Functions & Lambdas 4. Dictionary Comprehension 5. Modules, classes and objects, Inheritance 6. Operator overloading, Exception handling 7. Iterators & Generators, Decorators, Command-line Parsing Ê WHO THIS BOOK IS FOR Students, Programmers, researchers, and software developers who wish to learn the basics of Python programming language. Ê Table of ContentsÊ 1.

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13. Recursion 14. Functional Programming 15. Modules
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18. Intricacies of Classes and Objects 19. Containership
and Inheritance 20. Iterators and Generators 21.
Exception Handling 22. File Input/OutputÊ 23. Miscellany
24. Multi-threading 25. Synchronization

Learn the techniques and math you need to start making
sense of your data About This Book Enhance your
knowledge of coding with data science theory for
practical insight into data science and analysis More than
just a math class, learn how to perform real-world data
science tasks with R and Python Create actionable
insights and transform raw data into tangible value Who
This Book Is For You should be fairly well acquainted
with basic algebra and should feel comfortable reading
snippets of R/Python as well as pseudo code. You
should have the urge to learn and apply the techniques
put forth in this book on either your own data sets or
those provided to you. If you have the basic math skills
but want to apply them in data science or you have good
programming skills but lack math, then this book is for
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important steps of data science Use your data
intelligently and learn how to handle it with care Bridge
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about probability, calculus, and how to use statistical
models to control and clean your data and drive

actionable results Build and evaluate baseline machine learning models Explore the most effective metrics to determine the success of your machine learning models Create data visualizations that communicate actionable insights Read and apply machine learning concepts to your problems and make actual predictions In Detail Need to turn your skills at programming into effective data science skills? Principles of Data Science is created to help you join the dots between mathematics, programming, and business analysis. With this book, you'll feel confident about asking—and answering—complex and sophisticated questions of your data to move from abstract and raw statistics to actionable ideas. With a unique approach that bridges the gap between mathematics and computer science, this books takes you through the entire data science pipeline. Beginning with cleaning and preparing data, and effective data mining strategies and techniques, you'll move on to build a comprehensive picture of how every piece of the data science puzzle fits together. Learn the fundamentals of computational mathematics and statistics, as well as some pseudocode being used today by data scientists and analysts. You'll get to grips with machine learning, discover the statistical models that help you take control and navigate even the densest datasets, and find out how to create powerful visualizations that communicate what your data means. Style and approach This is an easy-to-understand and accessible tutorial. It is a step-by-step guide with use cases, examples, and illustrations to get you well-versed with the concepts of data science. Along with explaining

the fundamentals, the book will also introduce you to slightly advanced concepts later on and will help you implement these techniques in the real world.

Master HTML and CSS fundamentals to create beautiful websites. The best book on the market for modern web design fundamentals! Every one of the over 4 billion webpages online today use HTML markup language to display its content. HTML is everywhere. Experienced developers know that a mastery of HTML and CSS fundamentals is not only an essential web design skill, but also the solid foundation of a robust coding skillset. In HTML & CSS QuickStart Guide author, instructor, and 10+ year Fortune 500 tech company veteran David DuRocher breaks down HTML5 and CSS3 fundamentals manageable, practical, and engaging segments designed for first-time developers. David's unique and engaging approach to teaching HTML and CSS principles means that readers are ready to start designing from the very first chapter without enduring an avalanche of boring jargon or dry technobabble. Use the enclosed bonus digital asset access to go beyond the book with your own hands-on project, GitHub code repository, online tools, resources, and more! No matter whether you are a student, jobseeker looking to improve your resume, freelancer, designer, experienced developer, or just someone who wants to create their own website from scratch, everything you need to know is right here in this book! Truly anyone, at any stage of their lives, can learn to code. HTML and CSS are the perfect starting point on that journey—easy to learn, easy to implement, HTML & CSS open the door to a world of

coding possibilities. HTML & CSS QuickStart Guide Is Perfect For: - Full stack developers looking to brush up on their front-end development skills - Jobseekers looking to increase the value of their resume - Artists, bloggers, and digital entrepreneurs who want to customize their web presence - WordPress, Shopify, and Squarespace users who want to tweak templates and make them their own - Anyone who wants to create attractive, responsive, and modern websites with no prior experience needed HTML & CSS QuickStart Guide Covers: - HTML and CSS for Beginners – all of the core HTML and CSS fundamentals you need to know in one place - HTML tags, CSS elements, CSS styling, and exactly how to fit the pieces together - Futureproofing – how to design sites that look great on any browser, any device - How to save time using best practices to produce clean and tidy code - Formatting, sizing, fonts, images, multimedia, forms, sprites, and gradients – all of the tools you need to make your website 100% your own! HTML and CSS QuickStart Guide Will Teach You: - Modern Web Design Fundamentals – How to use the powerful combination of HTML5 and CSS3 to build functional and responsive web pages - Site Structure and Responsive Design Principles – How to format HTML and CSS markup to produce attractive web sites and web pages that look great on any browser and any device. - Breathing Life Into Your Projects – How to incorporate forms, multimedia elements, special characters and more into your web projects - Correct Markup Best Practices – How to efficiently use CSS and HTML together to produce clean, professional HTML

documents using industry-standard tools such as GitHub - HTML and CSS for Beginners – HTML and CSS elements, formatting, padding, gradients, menus, testing, debugging, keeping your site's code up to date and more—all supported with abundant visual examples and a practical hands-on project! *LIFETIME ACCESS TO FREE HTML AND CSS DIGITAL ASSETS* - A complete hands-on project using an industry-standard GitHub code repository along with a complete online HTML, CSS, and web design resource library, web development cheat sheets, and more!

Do you know enough about your computer and the machine learning it employs? Do you know why adverts pop up that seem to read your mind, or why that film you wanted to see is suddenly on Netflix? If it is something that you once looked at and thought was too much for you to understand, then this guide will change the way you think.

Learn to program with C++ quickly with this helpful ForDummies guide Beginning Programming with C++ For Dummies, 2ndEdition gives you plain-English explanations of the fundamentalprinciples of C++, arming you with the skills and know-how toexpertly use one of the world's most popular programming languages.You'll explore what goes into creating a program, how to put thepieces together, learn how to deal with standard programmingchallenges, and much more. Written by the bestselling author of C++ For Dummies,this updated guide explores the basic development concepts andtechniques of C++ from a beginner's point of view, and helps makesense of the how and why of C++

programming from the ground up.Beginning with an introduction to how programming languagesfunction, the book goes on to explore how to work with integerexpressions and character expressions, keep errors out of yourcode, use loops and functions, divide your code into modules, andbecome a functional programmer. Grasp C++ programming like a pro, even if you've never writtena line of code Master basic development concepts and techniques in C++ Get rid of bugs and write programs that work Find all the code from the book and an updated C++ compiler onthe companion website If you're a student or first-time programmer looking to masterthis object-oriented programming language, Beginning Programmingwith C++ For Dummies, 2nd Edition has youcovered.

As one of the most popular software languages for building Web applications, Java is often the first programming language developers learn.Completely revised and packed with updates for new versions of Java, the Java Programming 24-Hour Trainer, Second Edition self-paced book + video package provides everything beginners need to get started programming Java with no prior programming experience needed. As with the first edition, Java Programming 24-Hour Trainer features easy-to-follow lessons, reinforced by step-by-step instructions, screencasts, and supplemental exercises, all of which allow readers of all learning styles to master Java programming quickly and painlessly. The more than 10 hours of popular Java programming screencasts from the first edition are completely updated and revised to be more watchable than ever. This edition includes updates for Java SE 8 and Java EE 7 but continues to be useful whatever recent version of Java you choose to learn with. Lessons

include: Object-Oriented Programming with Java Class
Methods and Constructors Java Syntax: Bits and Pieces
Packages, Interfaces, and Encapsulation Programming with
Abstract Classes and Interfaces Error handling GUI Basics
with Swing Event Handling in Swing GUI GUI Basics with
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Recently revised and updated, this informative reference
gives students and professionals a strong foundation in the
essentials of business programming using RPG IV. Complete
with numerous programming examples and support material,
this account covers a variety of topics, including program
development process, RPG IV specifications and operations,
top down structured design, database definition and
processing, interactive applications, and modular
programming. Comprehensive and compatible with IBM i
Release 5.4, 6.1, 7.1 and later releases, this manual will
equip academics with the necessary tools to create highly
effective and maintainable RPG IV programs using the latest
techniques.
More than just a Python guide for beginners, The Python
Workshop takes you through the full spectrum of basic to

advanced topics, equipping you with the skills you need to get started with data science and more. Filled with practical step-by-step examples and interactive exercises, you'll learn by doing as you grow your new Python skillset.

Know Data science with numpy, pandas, scipy, sklearn DESCRIPTION "Data science and Machine learning interview questions using Python," a book which is a true companion of people aspiring for data science and machine learning, and it provides answers to most asked questions in an easy to remember and presentable form. Book mainly intended to be used as last-minute revision, before the interview, as all the important concepts and various terminologies have been given in a very simple and understandable format. Many examples have been provided so that the same can be used while giving answers in an interview. The book is divided into six chapters, which starts with the Data Science Basic Questions and Terms then covers the questions related to Python Programming, Numpy, Pandas, Scipy, and its Applications, then at the last covers Matplotlib and Statistics with Excel Sheet. KEY FEATURES - Questions related to core/basic Python, Excel, basic and advanced statistics are included - Book will prove to be a companion whenever you want to go for an interview - Simple to use words have been used in the answers for the questions to help ease of remembering WHAT WILL YOU LEARN - You can learn the basic concept and terms related to Data Science, python programming - You will get to learn how to program in python, basics of Numpy - You will get familiarity with the questions asked in an interview related to Pandas and learn the concepts of Scipy, Matplotib, and Statistics with Excel Sheet WHO THIS BOOK IS FOR The book is mainly intended to help people represent their answer in a sensible way to the interviewer. The answers have been carefully rendered in a way to make things quite simple and

yet represent the seriousness and complexity of the matter. Since data science is incomplete without mathematics, we have also included a part of the book dedicated to statistics. Table of Contents 1. Data Science Basic Questions and Terms 2. Python Programming Questions 3. Numpy Interview Questions 4. Pandas Interview Questions 5. Scipy and its Applications 6. Matplotlib Samples to Remember 7. Statistics with Excel Sheet

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