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YOUR ONE-STOP RESOURCE FOR DIGITAL SYSTEM DESIGN! The explosion in communications and embedded computing technologies has brought with it a host of new skill requirements for electrical and electronics engineers, students, and hobbyists. With engineers expected to have such diverse expertise, they need comprehensive, easy-to-understand guidance on the fundamentals of digital design. Enter McGraw-Hill's Complete Digital Design. Written by an experienced electrical engineer and networking hardware designer, this book helps you understand and navigate the interlocking components, architectures, and practices necessary to

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design and implement digital systems. It includes:

- * Real world implementation of microprocessor-based digital systems**
- * Broad presentation of supporting analog circuit principles**
- * Building complete systems with basic design elements and the latest technologies**

Complete Digital Design will teach you how to develop a customized set of requirements for any design problem—and then research and evaluate available components and technologies to solve it. Perfect for the professional, the student, and the hobbyist alike, this is one volume you need handy at all times! What you'll find inside:

- * Digital logic and timing analysis**
- * Integrated circuits**
- * Microprocessor and computer architecture**
- * Memory technologies**
- * Networking and serial communications**
- * Finite state machine design**

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Programmable logic: CPLD and FPGA
*** Analog circuit basics * Diodes, transistors, and operational amplifiers**
*** Analog-to-digital conversion * Voltage regulation * Signal integrity and PCB design * And more!**

by Kyle MacRae, Gary Marshall Now in its fourth edition, this best-selling manual has been fully revised to bring you right up-to-date with technology.

We explore the latest processors, memory, storage options and operating systems, discover what you need for Windows Vista and Windows 7 and of course we focus on the practical with plain English descriptions of what to get, where to get it at the best price and how to put it all together.

Now in its fifth edition, this best-selling manual has been fully revised to bring you right up-to-date with the latest technology, explaining what you need,

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where to find the best prices and how to put it all together. You'll discover the best multi-core processors and graphics options, whether solid-state drives are better than hard disks and the differences between Windows 7 and Windows 8, all written in a jargon-free style. With step-by-step photos showing how to build a powerful PC and an ultra-compact one - and a troubleshooting guide to help you with any issues you may encounter - this up-to-date manual is a must for anybody who wants to build their own computer.

The Illustrated Guide to Understanding Computer Systems, Hardware & Networks

A Guide to the Academic Computer System at Houghton College

Haynes Build Your Own Computer

Build Your Own Computer

The Complete Guide to Computer

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Modding

ACS User's Guide

This timely textbook presents a comprehensive guide to the core topics in cybersecurity, covering issues of security that extend beyond traditional computer networks to the ubiquitous mobile communications and online social networks that have become part of our daily lives. In the context of our growing dependence on an ever-changing digital ecosystem, this book stresses the importance of security awareness, whether in our homes, our businesses, or our public spaces. This fully updated new edition features new material on the security issues raised by blockchain technology, and its use in logistics, digital ledgers, payments systems, and digital contracts. Topics and features:

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Explores the full range of security risks and vulnerabilities in all connected digital systems Inspires debate over future developments and improvements necessary to enhance the security of personal, public, and private enterprise systems Raises thought-provoking questions regarding legislative, legal, social, technical, and ethical challenges, such as the tension between privacy and security Describes the fundamentals of traditional computer network security, and common threats to security Reviews the current landscape of tools, algorithms, and professional best practices in use to maintain security of digital systems Discusses the security issues introduced by the latest generation of network technologies, including mobile

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systems, cloud computing, and blockchain Presents exercises of varying levels of difficulty at the end of each chapter, and concludes with a diverse selection of practical projects Offers supplementary material for students and instructors at an associated website, including slides, additional projects, and syllabus suggestions This important textbook/reference is an invaluable resource for students of computer science, engineering, and information management, as well as for practitioners working in data- and information-intensive industries. If you want a book that's easy to follow and will show you how to build a gaming computer from start to finish, then this is the one for you. This book is written in an 'easy to understand' manner that will take

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you through all computer parts individually to help you choose each computer component. There's also help throughout this book on choosing quality computer components and a guide on picking out a version of Windows. Finally, there's a guide on how to build a gaming computer and how to install Windows 10. So let's not hang around any longer... let's get started. Bits, bytes, logic, RAM, CPUs, hard drives and SSD drives. Master the geeky acronyms and simplify computer hardware & terminology with ease. Computer hardware with all its technical jargon can be baffling, even for the moderately experienced user. This book is ideal for a computing course, whether in high school, college or first degree. Step-by-step, visual approach to help you

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quickly decode the jargon Plenty of full color, illustrated screenshots and photographs to help you Presented in an easy and simple to read format.

This book looks at Computer fundamentals: logic gates, binary arithmetic, hexadecimal, and number base conversions Data compression and encryption Hardware components: CPUs, RAM, Hard Drives, Portable Drives, video cards memory cards, motherboards, and the BIOS Inside the CPU, CPU architecture, instructions sets, and the fetch execute cycle Data Storage: bits, bytes, kilo bytes, megabytes, giga bytes and tera bytes Computer ports: VGA, HDMI, DVI, USB 2&3, FireWire, RJ45 ethernet, eSATA and more Different types of computer: desktops, laptops, netbooks, tablets, hybrids and supercomputers

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Operating systems: process management, memory management, file management Computer Software: applications, system software Computer peripherals: laser and inkjet printers Types of computer networks, Network topologies, LANs, WANs, MANs, fibre optics and ethernet WiFi and Cellular internet connections The internet: email, the cloud, the world-wide web, and packet switching IP Addressing, web servers, DNS servers and DHCP servers, TCP/IP model, OSI model and more... Techniques are illustrated step-by-step using full color photography and screen prints throughout, together with concise, easy to follow text from an established expert in the field, provide a comprehensive guide to computer systems.

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CISSP: Certified Information Systems Security Professional Study Guide

PC Direct Computer System

A Guide to Protecting Your Small Computer System

User's Guide and Reference

Building Extreme PCs

Computer Systems Servicing

Complete Digital Design: A Comprehensive Guide to Digital Electronics and Computer System

Architecture McGraw Hill Professional

A new generation of speech-driven personal computer systems promises to transform the business use of Information Technology. This is not merely a matter of discarding the

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keyboard, but of rethinking business processes to take advantage of the increased productivity that speech-driven systems can bring. Malcolm McPherson is one of the pioneers of this fast-moving field, and has been personally involved in the development of systems that have met business needs across many industrial sectors. Guides beginning users through basic PC operations in Microsoft Windows, demonstrating how to print letters, manage finances, shop online,

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*send and receive e-mail,
and customize the desktop.*

*A Complete Guide to
Computer Fundamentals*

*A Guide to Computer System
Installation*

A Beginners' Guide

Long Range Planning Guide

*A Guide to Open Computer
Systems*

Computer System

*Selection--a Management
Guide*

Anyone who needs information about computer systems for small or home businesses will find *The Small Business Computer Guide* to be an invaluable, thorough review of all aspects of computer systems and technology suited to small businesses. In clear, easy-to-understand language, *The Small Business Computer*

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Guide explains hardware components, software, and telecommunications, with an emphasis on productivity, efficiency, and how systems and components can be configured to best serve an individual business' needs. Consideration is given to budgetary restraints, and Joseph S Beckman offers numerous tips and suggestions on how to put together the right system. Joseph S Beckman is a lawyer in private practice and has spent many years using coputers in his legal work. He lives in Plantation, Florida. Whether you're a professional systems development project manager, or simply aspiring to enter this challenging field, this compact book is all you need! Complete with checklists, progress reports, and questions with answers, it's a practical, hands-on project management 'cookbook' of useful techniques, information, and recommendations that can be used as a

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daily reference manual as well as a 'dictionary' for the vast database of project management information available.

Everyone has to get a new computer at some time or another so why not get the computer you always wanted? Sure you can buy a nice computer off of the store shelf but you never really get exactly what you want that way. When you build your own computer, you are in charge of what components are going to be used so you know that it will perform the way you want it to. The goal of this book is to help you choose the parts (components) for your new computer so you can end up with a computer that does what you want it to do. Then you will be taken through the build process with step by step instructions and illustrations making it easy to get your new computer up and running in no time. Finally you will be guided through the process of installing an

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operating system on your computer so you can start enjoying your work. The chapters in the book cover the following topics:

Chapter 1 - Why Build Your Own

Computer? Chapter 2 - Choosing

Components Chapter 3 - Planning Your

Build Chapter 4 - Putting the Pieces

Together Chapter 5 - Initial Power Up

Chapter 6 - Installing Your Operating

System About the Author James Bernstein

has been working with various companies

in the IT field since 2000, managing

technologies such as SAN and NAS

storage, VMware, backups, Windows

Servers, Active Directory, DNS, DHCP,

Networking, Microsoft Office, Exchange,

and more. He has obtained certifications

from Microsoft, VMware, CompTIA,

ShoreTel, and SNIA, and continues to

strive to learn new technologies to further

his knowledge on a variety of subjects. He

is also the founder of the website

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OnlineComputerTips.com, which offers its readers valuable information on topics such as Windows, networking, hardware, software, and troubleshooting. Jim writes much of the content himself and adds new content on a regular basis. The site was started in 2005 and is still going strong today.

A Gamers Guide to Building a Gaming Computer

Building Your Own Computer Made Easy

Usability Testing and System Evaluation

Choosing the Perfect Components

Principles of Computer System Design

Personal Computer System Guide, 128

Buying a new PC usually means settling for a computer that doesn't match your budget or your needs. And it's often an exercise in frustration. So, what's the solution? Building your own,

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of course. Assembling your own computer isn't as scary, complicated, or expensive as it sounds. All you really need is a good guide to show you how. Build Your Own Gaming Computer: A Step-by-Step Illustrated Guide to Assembling Your Ultimate High-Performance PC will walk you through each of the individual stages of custom-building a PC from start to finish. A practical, hands-on guide that's written in easy-to-understand layman's terms, this illustrated manual enables even novice computer users to build the PC of their dreams. Topics covered include: What a computer needs

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for basic operation How to shop for components How to avoid costly compatibility issues Step-by-step assembly instructions Choosing and installing an operating system Overclocking basics Build Your Own Gaming Computer: A Step-by-Step Illustrated Guide to Assembling Your Ultimate High-Performance PC also offers color photos highlighting key steps in the assembly process, helpful hints and tips, and a glossary of terms that every computer user should know. Stop wasting time and money on pre-built computers that don't deliver the functionality or performance you want.

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Instead, use this guide to create a PC that's tailored just for you. Provides instructions on building, customizing, and modifying a PC, with information on components and how to build and test a system, along with a collection of customized PCs. This full-colour manual shows how easy it is to upgrade, maintain and repair a PC. From adding more memory to installing a DVD drive, it takes the reader through each stage using plain English and clear photographs. Designed to be of use for the small business, student or home user, the jargon-free manual should save time and money and

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give readers a basic understanding of all areas of computer hardware and installation without blinding them with science.

Exploring Computer Systems
Pocket Guide for the Review of
Any Computer System
Guide to Reliable Distributed
Systems

An Introduction

Building High-Assurance
Applications and Cloud-Hosted
Services

Haynes Computer Manual

*Information and
Communication Technology
(ICT) has revolutionized the
world, much like how the*

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industrial revolution has changed the world. In this fast ever changing world, you got two options to be accept the changes and improve or to be left behind. The world of information technology was made possible through computers, networks and the internet. These are the three ingredients that changed the way we do things in every aspect of life. This book is written with the hope that those people who are curious and who have no prior knowledge regarding information and communication technology will be exposed to all possibilities. By bringing

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this book that tackles to the very core of the ICT which is the computer and its system, a beginner will have an understanding of how computer system and networks function.

New edition of best-seller shows users how to get the most out of their PCs And The Internet - updated to cover Vista.

For anyone involved in building computer systems at a professional level, this book clearly explains Open Systems and the topics of interoperability and portability. In simple terms, it explains open systems concepts, the associated standards, and

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how they can be combined to produce open, working computer system networks.

The Small Business Computer Guide

A Guide to Successful Management of Computer Systems Projects

Management Guide to Computer System Selection and Use

A Guide for Designing Useful Computer Systems

Build a Computer from Scratch

An Evaluation Guide for Professionals

Meeting the Challenge: Are Missed Trusted Computer System Evaluation Criteria opportunities Costing you Money? Is the scope of Trusted

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Computer System Evaluation Criteria defined? What are the revised rough estimates of the financial savings/opportunity for Trusted Computer System Evaluation Criteria improvements? How are the Trusted Computer System Evaluation Criteria's objectives aligned to the organization's overall business strategy? How to Secure Trusted Computer System Evaluation Criteria? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are

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talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President,

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CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Trusted Computer System Evaluation Criteria investments work better. This Trusted Computer System Evaluation Criteria All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Trusted Computer System Evaluation Criteria Self-Assessment. Featuring 633 new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Trusted

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Computer System Evaluation Criteria improvements can be made. In using the questions you will be better able to: - diagnose Trusted Computer System Evaluation Criteria projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Trusted Computer System Evaluation Criteria and process design strategies into practice according to best practice guidelines Using a Self-Assessment tool known as

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the Trusted Computer System Evaluation Criteria Scorecard, you will develop a clear picture of which Trusted Computer System Evaluation Criteria areas need attention. Your purchase includes access details to the Trusted Computer System Evaluation Criteria self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book. Security for Small Computer Systems: A Practical Guide for Users is a guidebook for

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security concerns for small computers. The book provides security advice for the end-users of small computers in different aspects of computing security. Chapter 1 discusses the security and threats, and Chapter 2 covers the physical aspect of computer security. The text also talks about the protection of data, and then deals with the defenses against fraud. Survival planning and risk assessment are also encompassed. The last chapter tackles security management from an organizational perspective. The book will be of great use to users of a small computer

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system.

Totally updated for 2011, here's the ultimate study guide for the CISSP exam

Considered the most desired certification for IT security professionals, the Certified Information Systems Security Professional designation is also a career-booster. This comprehensive study guide covers every aspect of the 2011 exam and the latest revision of the CISSP body of knowledge. It offers advice on how to pass each section of the exam and features expanded coverage of biometrics, auditing and accountability, software security testing, and

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other key topics. Included is a CD with two full-length, 250-question sample exams to test your progress. CISSP certification identifies the ultimate IT security professional; this complete study guide is fully updated to cover all the objectives of the 2011 CISSP exam Provides in-depth knowledge of access control, application development security, business continuity and disaster recovery planning, cryptography, Information Security governance and risk management, operations security, physical (environmental) security,

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security architecture and design, and telecommunications and network security Also covers legal and regulatory investigation and compliance Includes two practice exams and challenging review questions on the CD Professionals seeking the CISSP certification will boost their chances of success with CISSP: Certified Information Systems Security Professional Study Guide, 5th Edition. Do it Right the First Time Computer Systems Experiences of Users with and Without Disabilities Security for Small Computer

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Systems

Build Your Own Gaming
Computer

The Step-By-Step Guide to
Upgrading and Repairing a PC
Building a computer system lets
users get exactly the computer
system that they need. This book
takes them through all of the
steps to create a powerful
computer system. Includes 120+
photographs to guide readers
through the process. (Computer
Books)

Good Manufacturing Practice
(GMP) ensures medicinal
products are produced
consistently and controlled to

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the quality standards appropriate for their intended use and as required by product specifications or marketing authorization. Annex 11 details the European Medicines Agency (EMA) GMP requirements for computer systems. The purpose of Annex 11 is

Presents information on choosing and buying computer components along with recommendations on specific brands and models.

A Practical Guide for Users
The Step by Step Guide
Beyond the Mainframe
Project Management Made Simple

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Or, How to Pick a Computer
Absolute Beginner's Guide to
Computer Basics

Ideal for PC owners looking for an accessible, easy-to-follow reference, this beginner's guide to PC hardware offers expert advice on every component--processors, motherboards, memory, BIOS, CD-ROM and DVD drives, video cards, and much more. You'll also get details on external devices, including monitors, printers, keyboards, and modems. The book covers both Intel and non-Intel CPUs and USB and AGP ports. "Containing enough illustrations and well-compiled questionnaires to complement the easy language used throughout, this book is an attempt to make the concepts of

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computers interesting for everyone." --

Principles of Computer System Design is the first textbook to take a principles-based approach to the computer system design. It identifies, examines, and illustrates fundamental concepts in computer system design that are common across operating systems, networks, database systems, distributed systems, programming languages, software engineering, security, fault tolerance, and architecture. Through carefully analyzed case studies from each of these disciplines, it demonstrates how to apply these concepts to tackle practical system design problems. To support the focus on design, the text identifies and explains abstractions that have

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proven successful in practice such as remote procedure call, client/service organization, file systems, data integrity, consistency, and authenticated messages. Most computer systems are built using a handful of such abstractions. The text describes how these abstractions are implemented, demonstrates how they are used in different systems, and prepares the reader to apply them in future designs. The book is recommended for junior and senior undergraduate students in Operating Systems, Distributed Systems, Distributed Operating Systems and/or Computer Systems Design courses; and professional computer systems designers. Features: Concepts of computer system design guided by

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fundamental principles. Cross-cutting approach that identifies abstractions common to networking, operating systems, transaction systems, distributed systems, architecture, and software engineering. Case studies that make the abstractions real: naming (DNS and the URL); file systems (the UNIX file system); clients and services (NFS); virtualization (virtual machines); scheduling (disk arms); security (TLS). Numerous pseudocode fragments that provide concrete examples of abstract concepts. Extensive support. The authors and MIT OpenCourseWare provide on-line, free of charge, open educational resources, including additional chapters, course syllabi, board layouts and slides, lecture videos, and an

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archive of lecture schedules, class assignments, and design projects.

Process Computer System Replacement

A Step-by-Step Illustrated Guide to Assembling Your Ultimate High-Performance PC

The Complete Step-By-Step Manual to Constructing a PC That's Right for You

Computer Basics Absolute Beginner's Guide, Windows 10 Edition

Guide to Parallel Programming on Sequent Computer Systems

Complete Digital Design: A Comprehensive Guide to Digital Electronics and Computer System Architecture

This book describes the key concepts, principles and implementation options for creating

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high-assurance cloud computing solutions. The guide starts with a broad technical overview and basic introduction to cloud computing, looking at the overall architecture of the cloud, client systems, the modern Internet and cloud computing data centers. It then delves into the core challenges of showing how reliability and fault-tolerance can be abstracted, how the resulting questions can be solved, and how the solutions can be leveraged to create a wide range of practical cloud applications. The author's style is practical, and the guide should be readily understandable without any special background. Concrete examples are often drawn from real-

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world settings to illustrate key insights. Appendices show how the most important reliability models can be formalized, describe the API of the Isis2 platform, and offer more than 80 problems at varying levels of difficulty.

This book provides the necessary tools for the evaluation of the interaction between the user who is disabled and the computer system that was designed to assist that person. The book creates an evaluation process that is able to assess the user's satisfaction with a developed system. Presenting a new theoretical perspective in the human computer interaction evaluation of disabled persons, it takes into account all of the

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individuals involved in the evaluation process.

Make the most of your new Windows® 10 notebook or desktop computer—without becoming a technical expert! This book is the fastest way to get comfortable, get productive, get online, get started with social networking, make more connections, and have more fun! Even if you've never used a Windows computer before, this book shows you how to do what you want, one incredibly clear and easy step at a time. Computer basics have never, ever been this simple! Who knew how simple using computers could be? This is today's best beginner's guide to using your computer or tablet with

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the new Windows 10 operating system...simple, practical instructions for doing everything you really want to do!

EU Annex 11 Guide to Computer Validation Compliance for the Worldwide Health Agency GMP Executive Guide to Speech-Driven Computer Systems

PC Hardware Buyer's Guide

Trusted Computer System

Evaluation Criteria a Complete Guide

Guide to Computer Network Security

PC Hardware: A Beginner's Guide