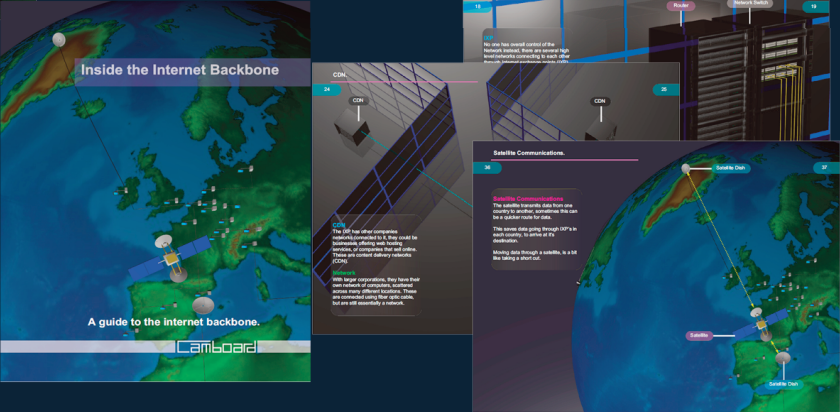
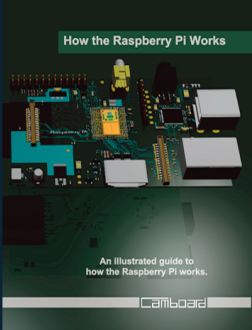
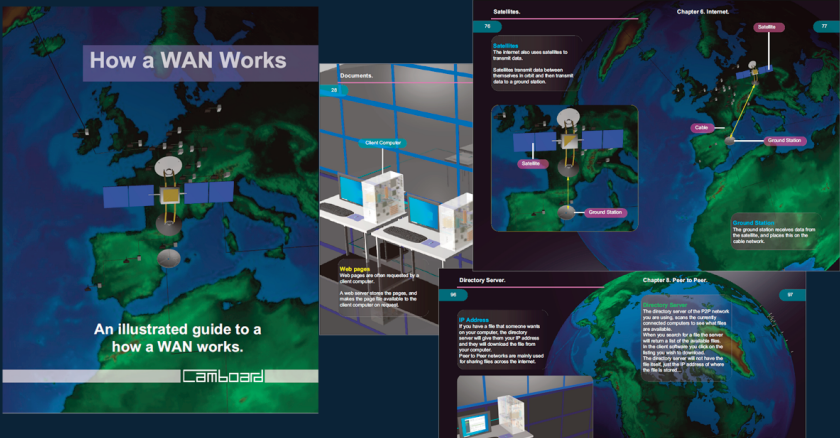


Computer Science Catalogue



www.camboard-publishing.com

Camboard

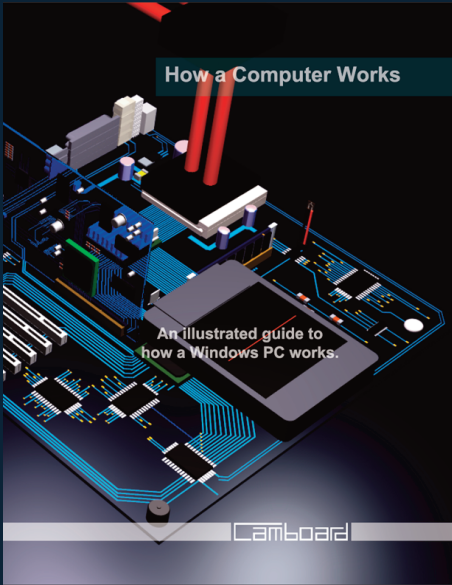
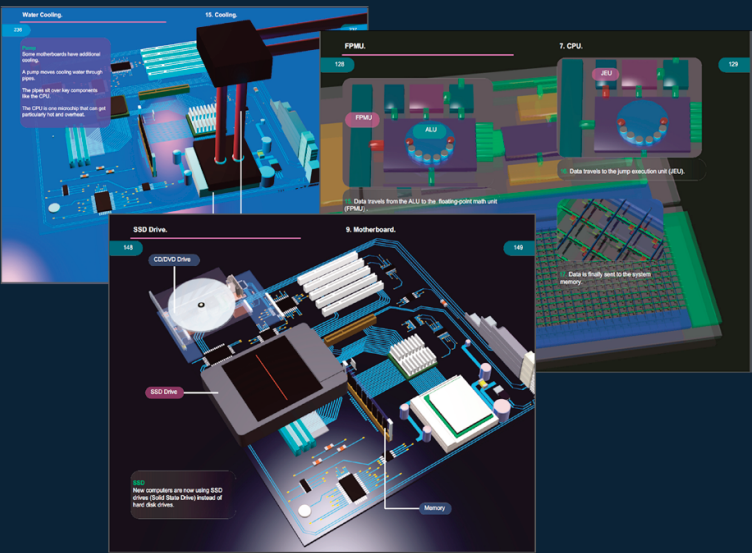
How a Computer Works

How a Computer Works (Second Edition) is an updated version of the original book. Learn more about how a computer works. How a Computer Works is a full color illustrated guide and reference tool. Packed with stunning graphics this guide brings the inside of a Windows PC to life.

A fascinating and absorbing overview of what's happening inside a computer. Useful to students or those wishing to learn the mysterious operation of How a Computer Works.

The book delves into the operation of the key components of a personal computer. The computers key processes are described in short form. Includes clear diagrams of the main computer parts. The heart of any computer is the CPU the book explains with clear graphics the internal operation of an Intel processor. Includes comprehensive guides to the main components of your computer. Explains the technologies that make up a computer. Explains where all the connections on the back go to..

Language: English
Copyright: All Rights Reserved - Standard Copyright License
Pages: 279
Type: Paperback, eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)



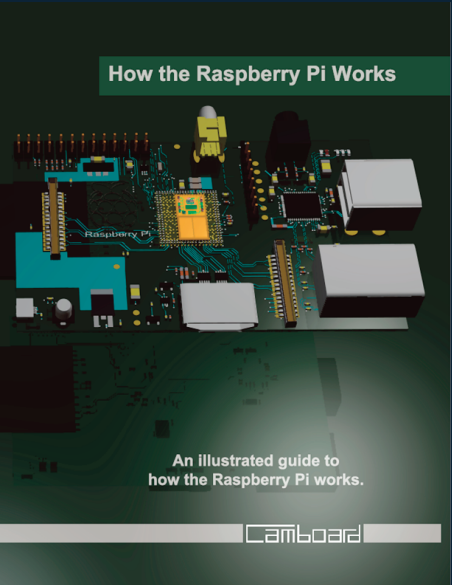
How the Raspberry Pi Works

How the Raspberry Pi Works is a colourful guide packed with stunning graphics that brings to life the inside of a Raspberry Pi.

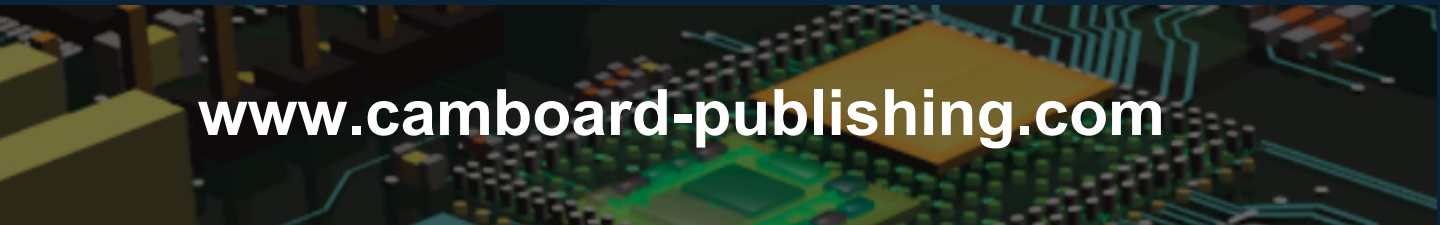
How the Raspberry Pi Works introduces the main processes of a working Raspberry Pi. The book is a great introduction to the inner workings of a Raspberry Pi. Students or hobbyists can see what is going on inside a Raspberry Pi.

This book delves into the operation of the computers key components. The computers processes are described in short form. Great for understanding the Raspberry Pi computer architecture, in easy to understand, step by step descriptions.

This book covers the Raspberry Pi SoC, CPU ,Ports, Local Memory,SDIO Memory GPIO, Graphics and Memory Ports, RCA and HDMI (Video), CSI, DSI, USB and Ethernet.



Language: English
Copyright: All Rights Reserved - Standard Copyright License
Pages: 170
Type: Paperback, eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)



How a LAN Works

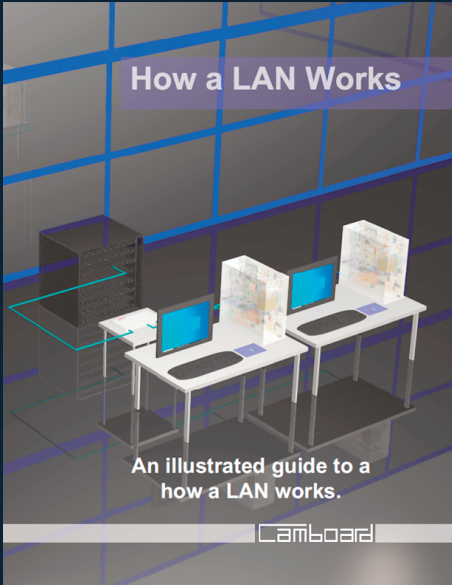
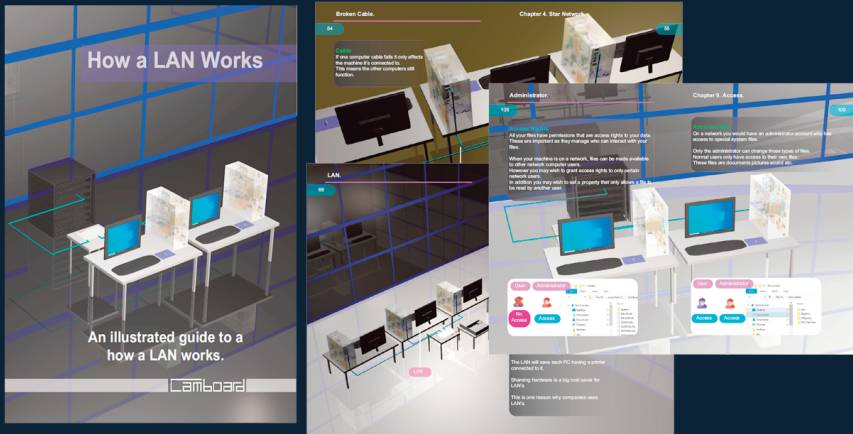
How a LAN Works is a full color illustrated guide to the world of local area networks.

This book is designed for students who want to know the basics of how networks work. How a LAN Works explores the underlying concepts of how networks function. Combines excellent full color graphics that brings the inside of a network to life. Introduces the three main network types, star networks, bus networks and ring networks.

Describes the differences between local area networks (LAN) and wide area networks (WAN). Covers network security with user names and passwords.

Access rights are described.
The network firewall is covered.
Describes data packets and ports.
The TCP/IP protocols are detailed.
Client Server is described

This full-color, fully illustrated guide to the world of local area networks is Ideal for computer science.



Language: English
Copyright: All Rights Reserved - Standard
Copyright License
Pages: 110
Type: Paperback, eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)



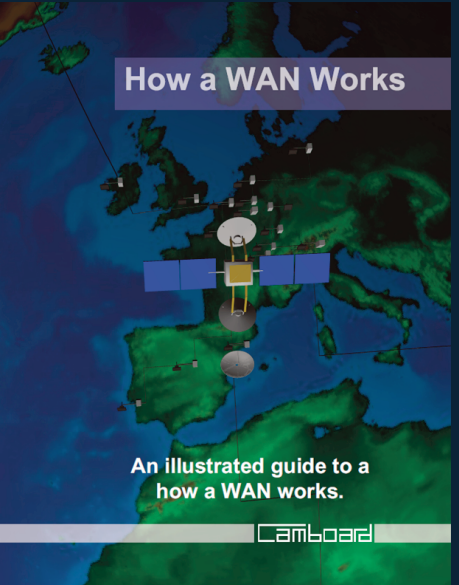
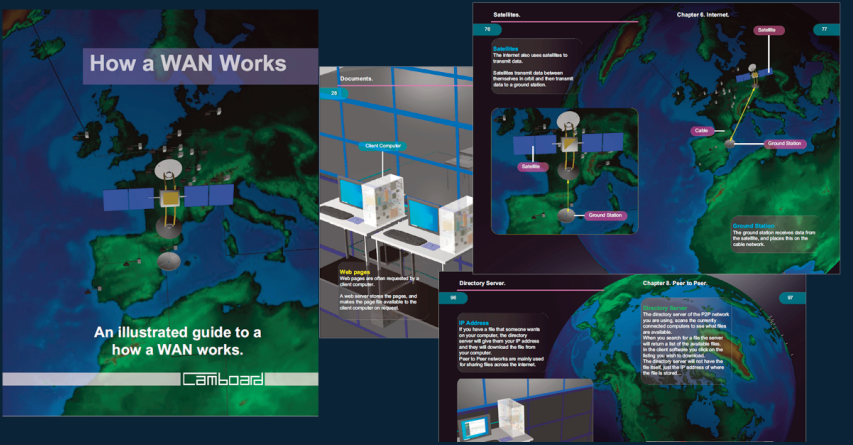
How a WAN Works

This book is designed for students who want to know the basics of how a wide area network works.

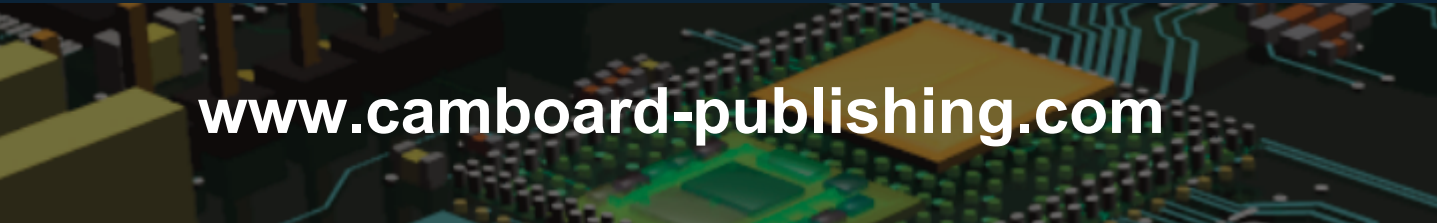
How a WAN Works explores the underlying concepts of how wide area networks function. Combines full color illustrations that brings the inside of a network to life.

Describes the differences between local area networks (LAN) and wide area networks (WAN). The network firewall is covered.
Describes data packets and ports.
The TCP/IP protocols are detailed.
Internet networks are covered.
Client Server is described

Covers name server and peer to peer networks.
This full-color, fully illustrated guide to the world of wide area networks is ideal for computer science curriculums.



Language: English
Copyright: All Rights Reserved - Standard
Copyright License
Pages: 98
Type: Paperback, eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)



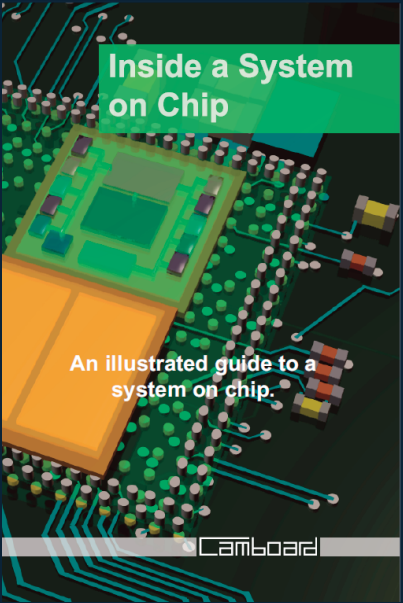
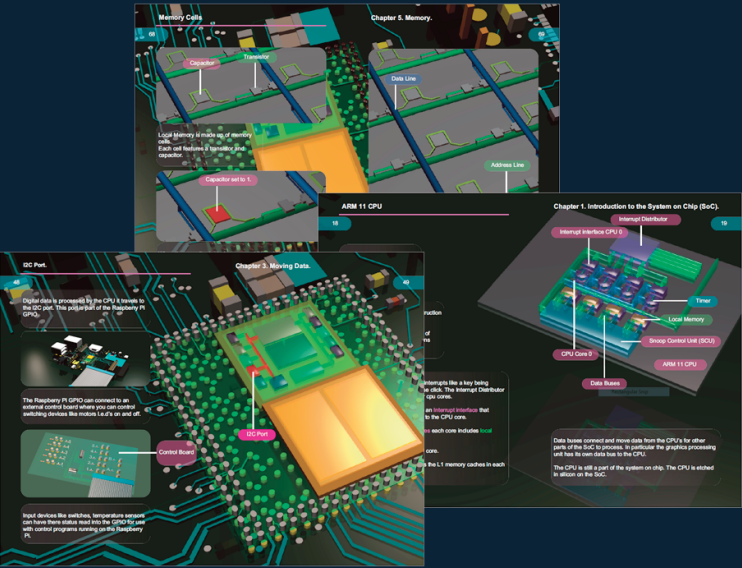
Inside a System on Chip

This illustrated book takes you on a journey through the operation of a System on Chip (SoC). We start with an introduction to the parts of the SoC. The ARM 11 CPU is shown in full color. The SoC Ports are described.

The paths data flows through the SoC are shown in colorful illustrations. Inside a System on Chip describes the purpose and use of the GPU (Graphics Processing Unit).

The book shows the journey data makes from the CPU in Read/Write cycles to local and SDIO memory. You'll find full color graphics throughout the book. This book will be useful to students and anyone else wishing to learn how data moves around the various parts of a SoC. A colorful resource for beginners to computer science.

Language: English
Copyright: All Rights Reserved - Standard Copyright License
Pages: 108
Type: Paperback,eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)

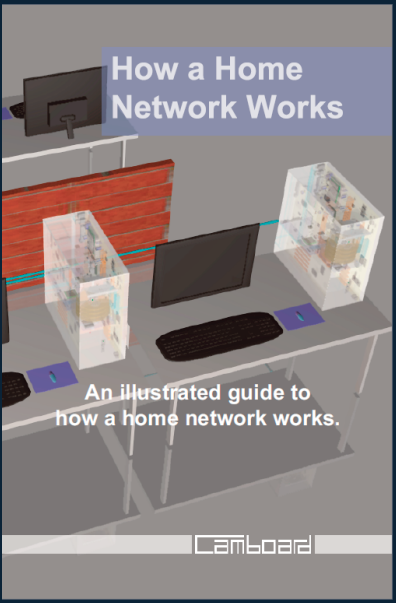
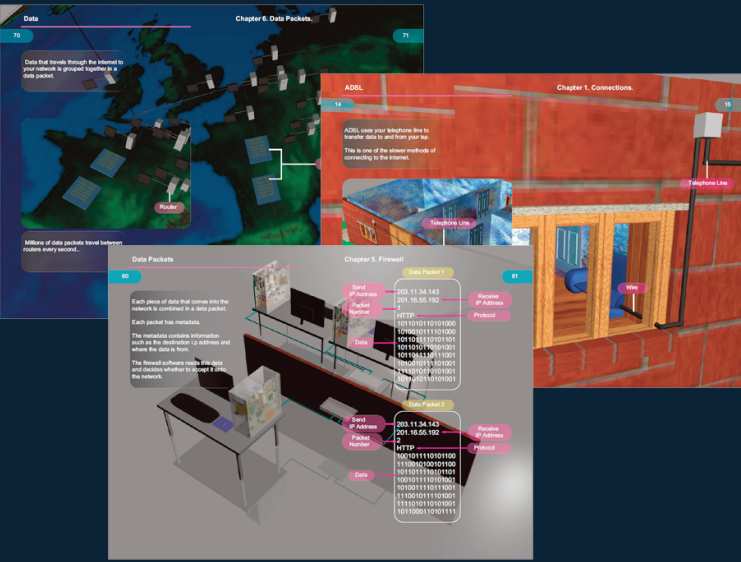


How a Home Network Works

How a Home Network Works is a full color illustrated guide to the key technologies around a small home network. We start with how the network is physically connected to the internet. The main connection types are illustrated in colorful graphics. Connections made through the cable, telephone line, FTTC (Fibre to the Cabinet) , FTTH (Fibre to the Home) and Mobile internet. We move onto WiFi technology and illustrate how different types of devices use WiFi to access the internet.

The IP Address use is explained through color illustrations. The DNS (Domain Name Server) is illustrated. The Firewall on your home network is illustrated. Data Packets That move around the internet and LAN are explained and illustrated in full color graphics. Protocols that move data around your network and the internet are illustrated in colorful graphics. The Local Area Network (LAN) which forms the basis of most home networks is explained and illustrated. This book will be useful to students and anyone else wishing to learn how the technologies around a small home network function. A colorful resource for beginners to computer science.

Language: English
Copyright: All Rights Reserved - Standard Copyright License
Pages: 96
Type: Paperback, eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)



www.camboard-publishing.com

Camboard

www.camboard-publishing.com

Camboard

Inside a CPU

A step by step illustrative guide to how data moves around a CPU.

Inside a CPU shows the steps data makes as it travels through the CPU.

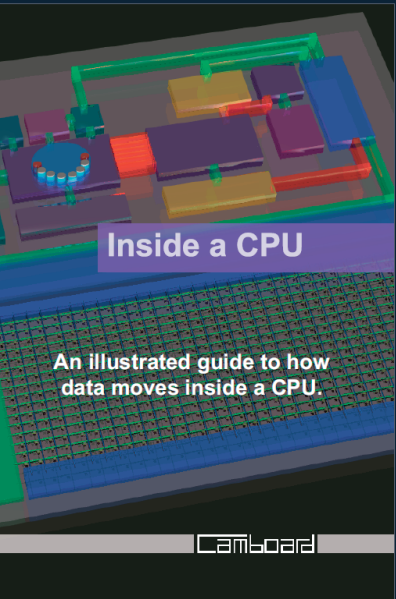
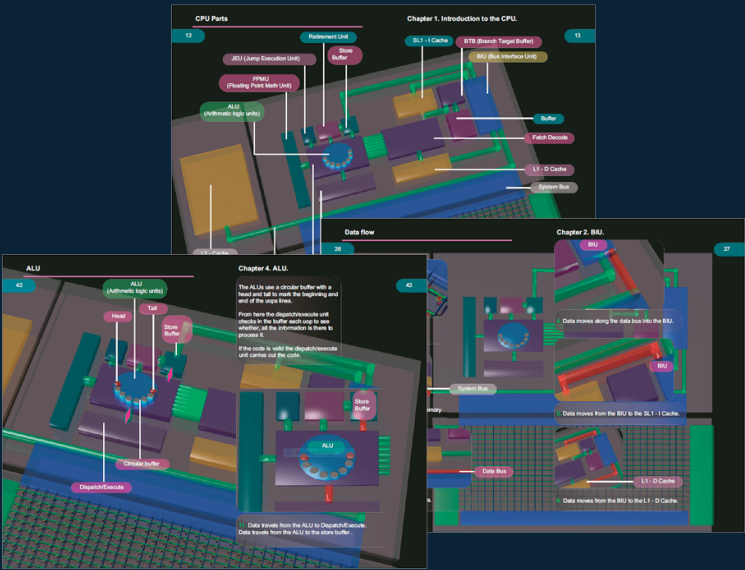
The book begins with data entering the CPU through the system bus.

Next we see data entering the bus interface unit. From here a copy of data is made to the CPU caches.

The fetch/decode unit and branch target buffer is next followed by the re-order buffer. The arithmetic and logic unit followed by the dispatch/execute unit.

The book concludes as data is transferred into system memory.

This full color guide will be useful to students studying computer science.



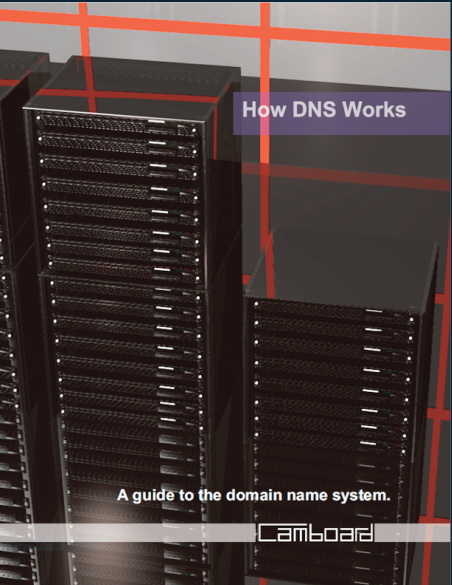
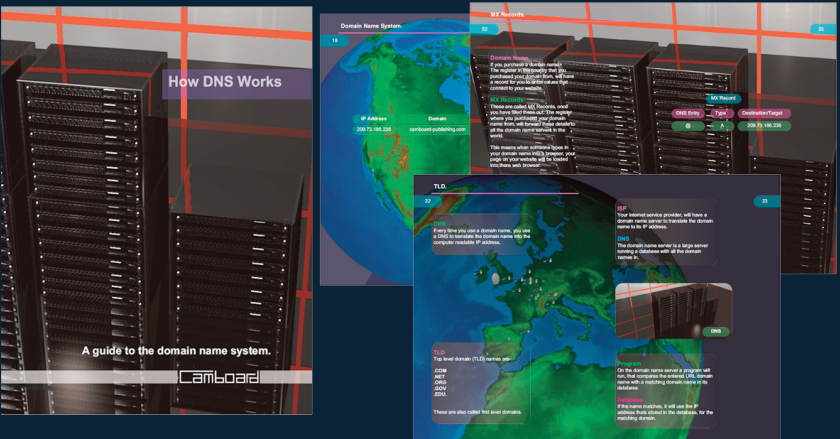
Language: English
Copyright: All Rights Reserved - Standard
Copyright License
Pages: 66
Type: Paperback, eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)

How DNS Works

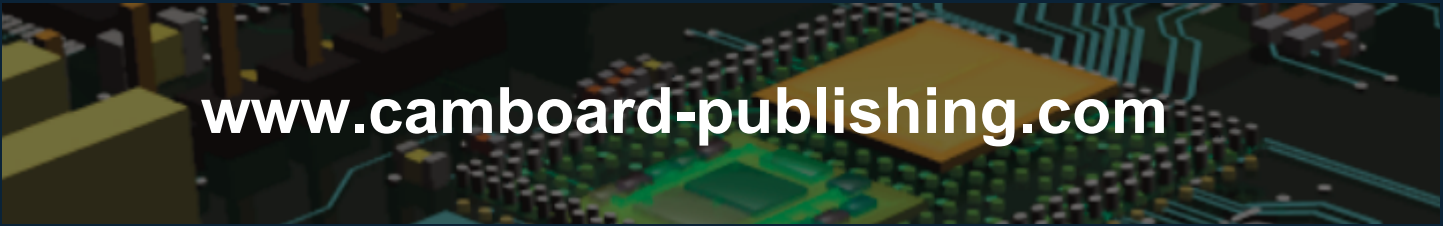
The Domain Name System is at the heart of the world wide web. How DNS Works explains how the domain system works through full color illustrations.

How DNS Works covers-
The early stages of the internet.
Internet protocol.
Uniform Resource Locator (URL)
Top level domains (TLD) and country code top level domains (ccTLD)
Domain name server.
MX Records system.

This full-color, fully illustrated guide to the world of the DNS, is ideal for computer science curriculums.



Language: English
Copyright: All Rights Reserved - Standard
Copyright License
Pages: 34
Type: Paperback, eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)



How Peer to Peer Networks Work

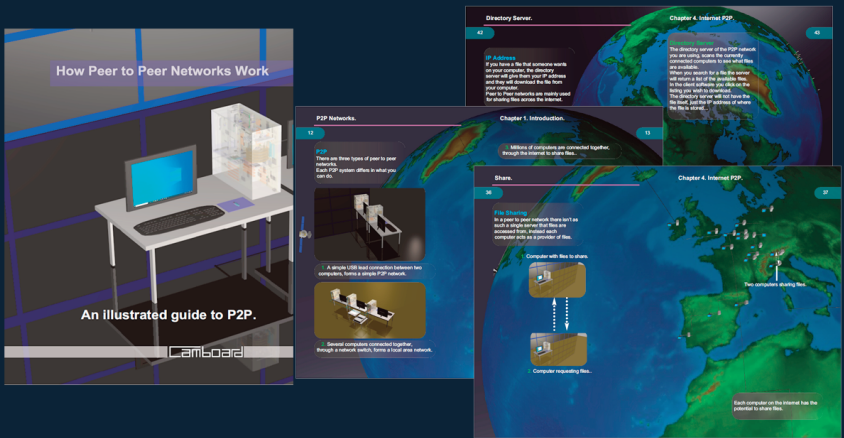
Peer to Peer or P2P for short is a network that is created when two or more computers are connected to share files and resources.

This full color illustrated guide shows how the three main P2P networks work.

- 1. A simple P2P consisting of couple of computers connected together with a USB cable.
- 2. A office based simple P2P network is created with a hub and spoke network, often called a star network.
- 3. P2P internet file sharing.

How Peer to Peer Networks Work, describes the difference between P2P and Client/Server.

This full-color, fully illustrated guide to the world of the P2P is ideal for computer science curriculums.



Language: English
Copyright: All Rights Reserved - Standard
Copyright License
Pages: 44
Type: Paperback, eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)

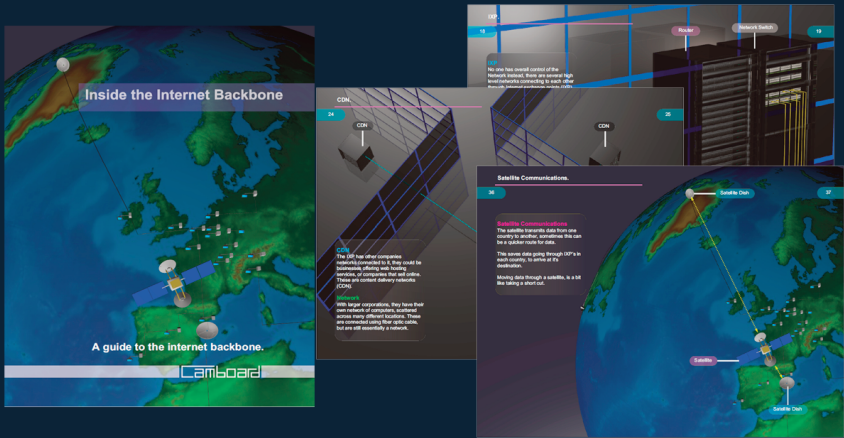
Inside the Internet Backbone

This full color illustrated guide shows how the internet backbone works. We start with the basics of how home users and companies with LAN's connect to internet service providers.

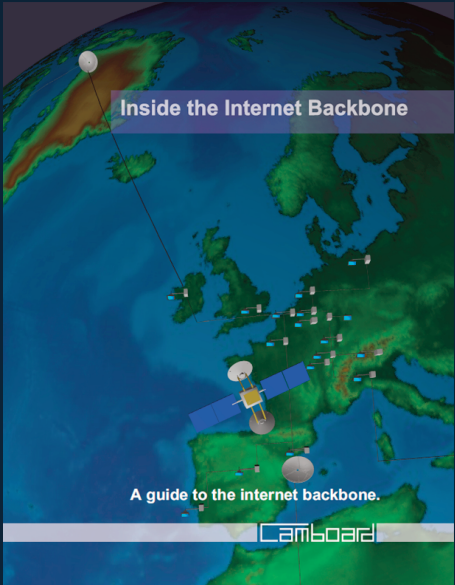
The purpose of Internet Exchange Points (IXP) and Content Delivery Networks (CDN) are described.

Illustrates routers and network switches, moving data through fiber optic cable and satellites. Inside the internet backbone shows how data is broken up, into data packets.

This full-color, fully illustrated guide to the world of the internet backbone is ideal for computer science curriculums.

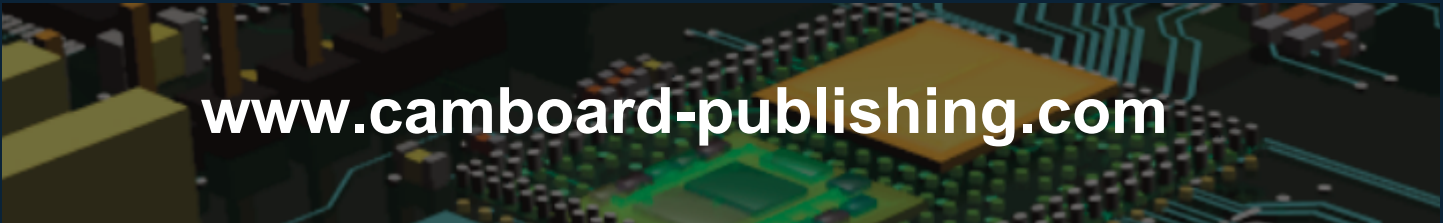


Language: English
Copyright: All Rights Reserved - Standard
Copyright License
Pages: 44
Type: Paperback, eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)



www.camboard-publishing.com

Camboard

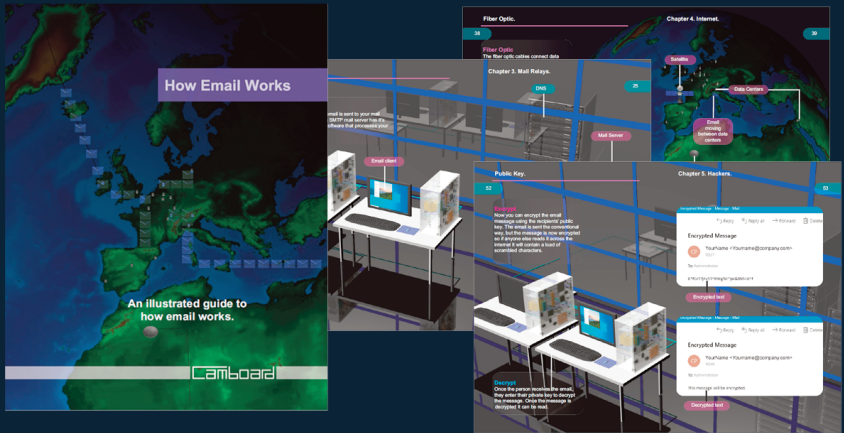


www.camboard-publishing.com

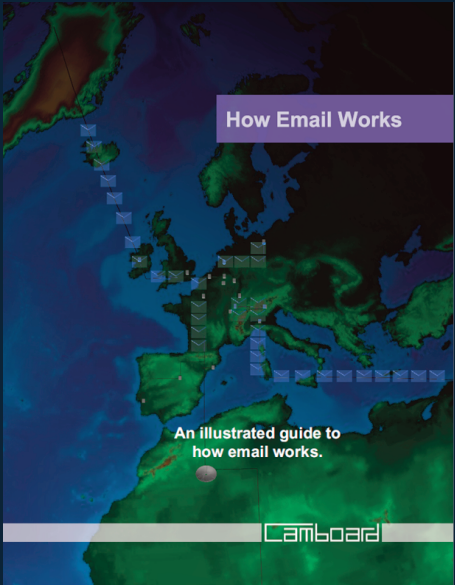
Camboard

How Email Works

This full color illustrated guide shows how electronic mail works. We start with the basics of sending an email to a mail server, with SMTP and POP3 explained. Mail Relays such as the Mail Submission Agent (MSA) and the Mail Transfer Agent (MTA) are described. How Email Works shows how email is broken up, into data packets. Illustrates routers and network switches, moving email through the internet, to the recipients mail server. The book shows simple encryption of emails to tackle hackers. This book finishes with spam, and how internet service providers, use router configuration code to stop spam travelling to mail servers. This full-color, fully illustrated guide to the world of email systems is ideal for computer science curriculums.



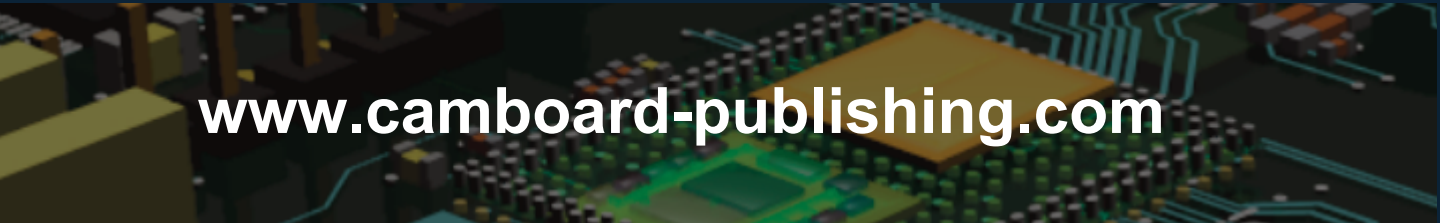
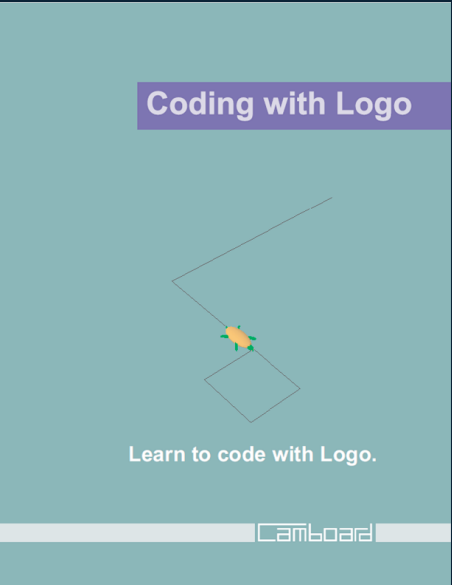
Language: English
Copyright: All Rights Reserved - Standard
Copyright License
Pages: 64
Type: Paperback, eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)



Coding with Logo is a book designed to help children learn about Logo and use this popular language to draw basic shapes and learn about coding. Coding with Logo will prove useful for guiding the pupil through drawing simple lines and basic shapes. Coding with Logo covers the basic Logo style commands and also includes sections on procedures, variables and mathematical operators. Coding with Logo guides the pupil through drawing shapes with the screen turtle. Coding with Logo uses Camboard's VR Logo for all logo coding.



Language: English
Copyright: All Rights Reserved - Standard
Copyright License
Pages: 70
Type: Paperback, eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)

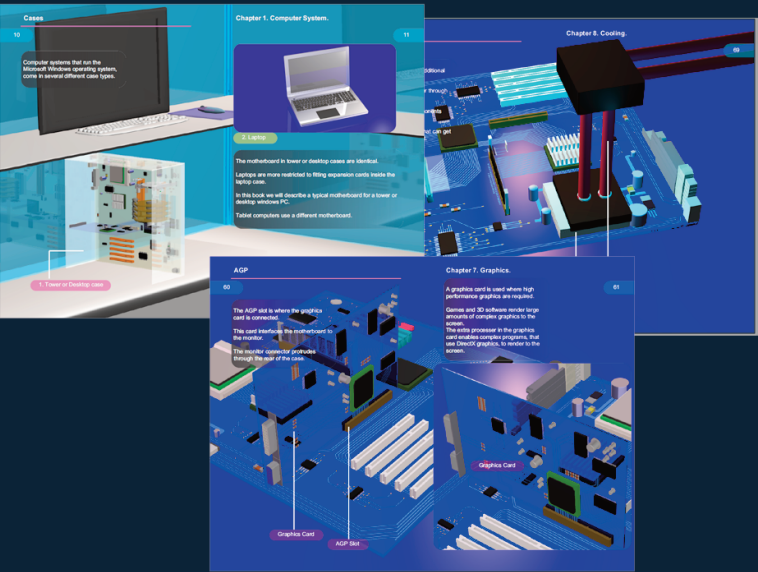


Inside a PC

This illustrated book takes you on a journey through the components that go to make up a Windows PC.

The book starts with basic parts of a computer system, these are the system tower, monitor, mouse and keyboard.

The book is in full illustrative color and describes the key PC components.



The motherboard and its main microchips are described.

From the CPU to the BIOS and system memory.

Includes the motherboards ports USB, FireWire,PS2, Serial and Parallel.

The graphics standards VGA, HDMI and AGP graphics card are shown with illustrative graphics.

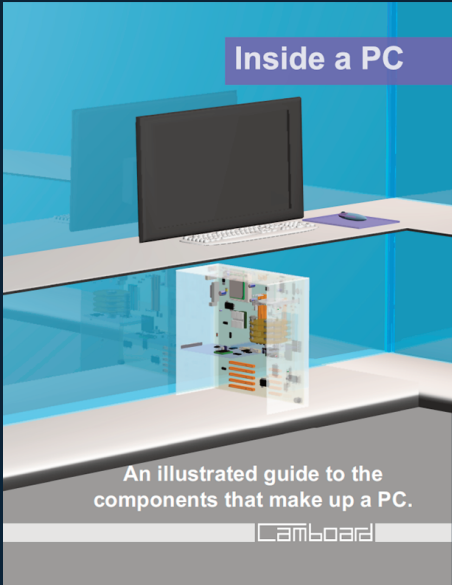
The book describes the PCI expansion card system.

Internal cooling of the PC is shown in full color, along with the Power supply unit.

The book finishes with Hard drives, SATA drives and Optical drives.

A colorful resource for beginners to computer science.

Language: English
Copyright: All Rights Reserved - Standard Copyright License
Pages: 102
Type: Paperback,eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)



Computer Storage Guide

Computer Storage Guide introduces the main computer storage devices with full color illustrations.

The Computer Storage Guide describes primary and secondary storage devices.

The book starts with an introduction to the main types of computer data storage.

Shows how the hard disk drive works with full color illustrations, the Computer Storage Guide also covers SSD drives.

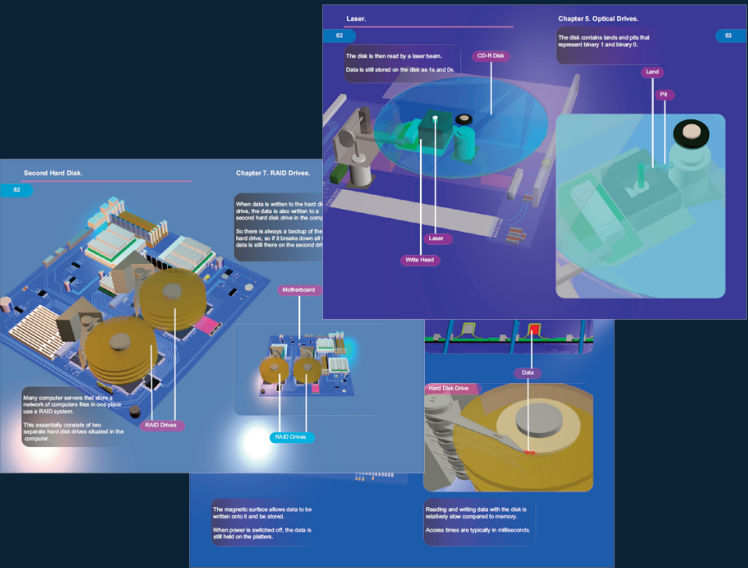
Introduces the system memory found on a computers motherboard.

Shows how CD/DVD optical drives works in full color.

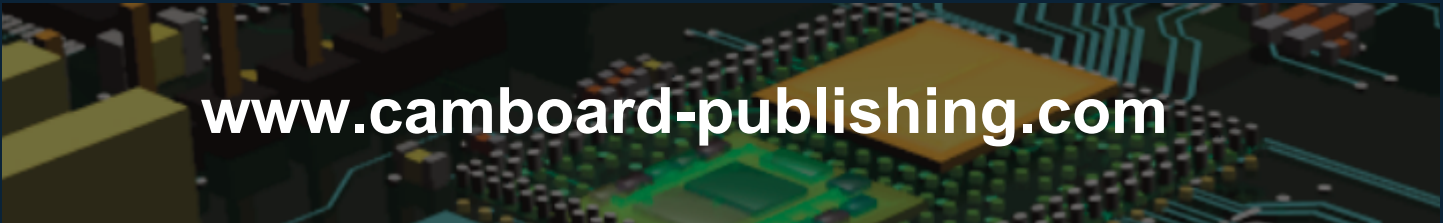
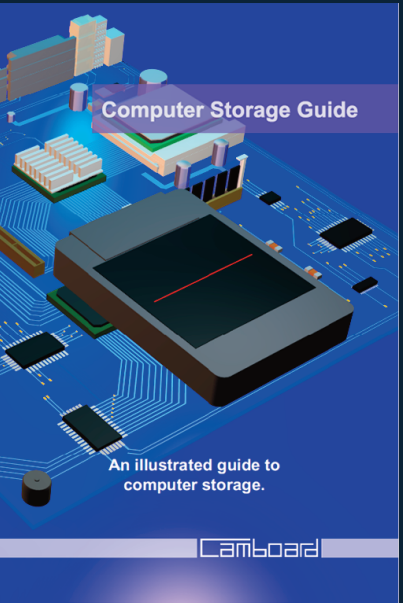
Introduces external USB type memory sticks and memory cards.

Describes how RAID drives works.

This book will be useful to students and anyone else wishing to learn about the different types of computer storage.



Language: English
Copyright: All Rights Reserved - Standard Copyright License
Pages: 84
Type: Paperback,eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)



Computer Parts Guide

The computer parts guide will show you, the typical parts that go to make up a Windows PC.

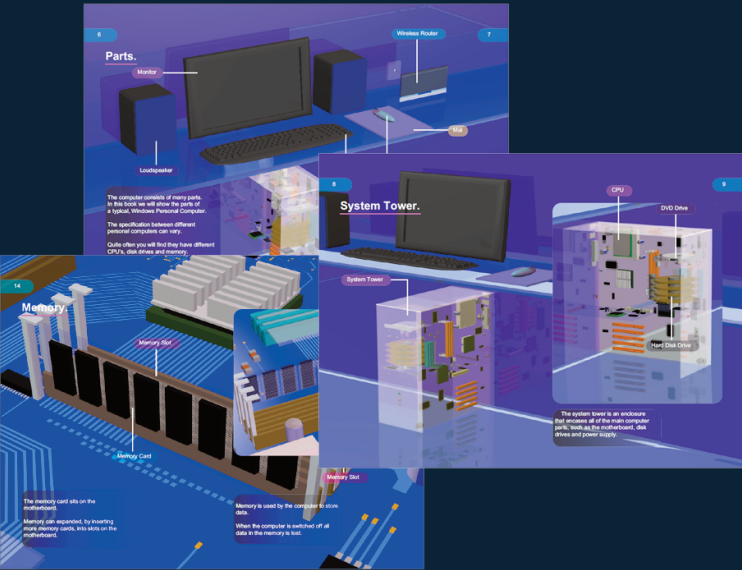
We start with the system tower, motherboard, CPU and memory. Internal disk drives hard disk drive and SSD drive are shown in full color.

The book covers, with full color illustrations the DVD Drive, Graphics Card, Sound card and Loudspeakers.

The Power Supply is explored, along with the Keyboard, Mouse and Monitor.

You'll find full color graphics throughout the book.

This book will be useful to students and anyone else wishing to learn what components go to make up a computer.



Language: English
Copyright: All Rights Reserved - Standard Copyright License
Pages: 38
Type: Paperback,eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)



How Optical Drives Work

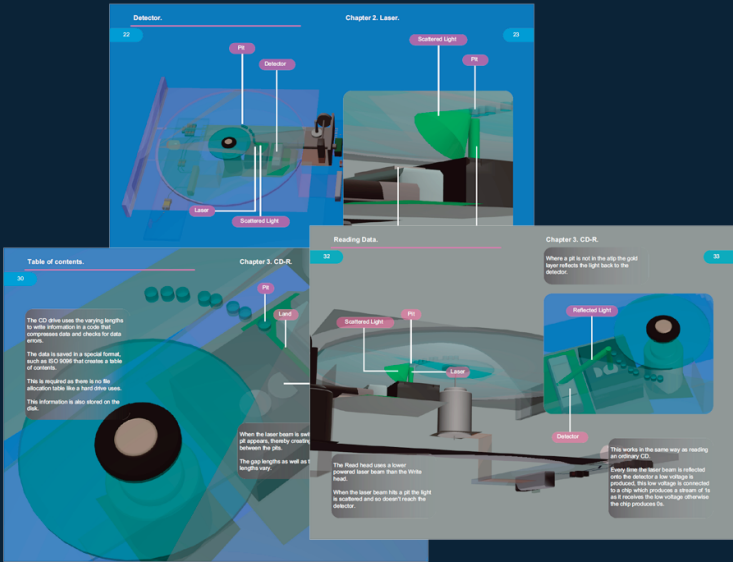
How Optical Drives Work describes the operation of a CD Drive as fitted to a Windows PC. Full color illustrations throughout the book show the processes involved in reading and writing data to an optical disk.

The different types of CD disks are covered in this book. The drives internal components are shown.

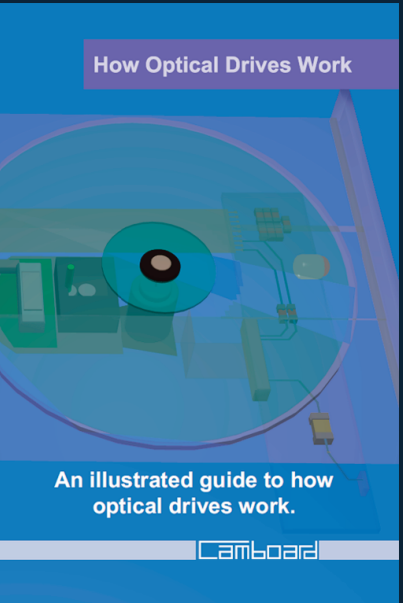
Read and write to a CD-R disk is shown with full color illustrations.

The processes involved in reading and writing to a CD-R disk is shown with full color illustrations. Data transferred from the drive to the motherboard is explained.

Read and write to a CD-RW disk is shown with full color illustrations.



Language: English
Copyright: All Rights Reserved - Standard Copyright License
Pages: 46
Type: Paperback,eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)



How a Hard Drive Works

The hard disk drive is the primary device used for storing data.

Every personal computer has a hard drive built into the machine.

How a Hard Drive Works shows with full color illustrations, the main functions and operations of a primary internal hard disk drive.

Reading data from the hard disk is shown with full color illustrations.

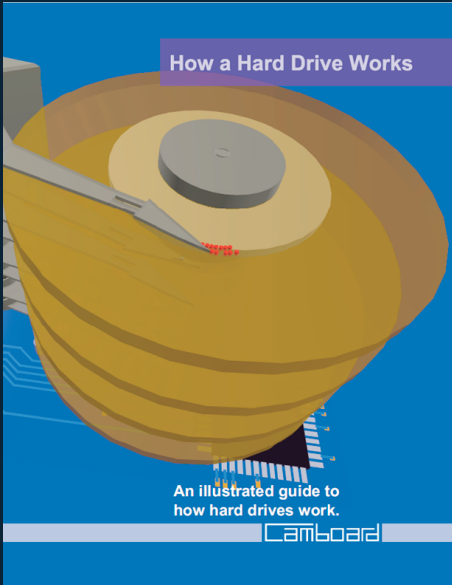
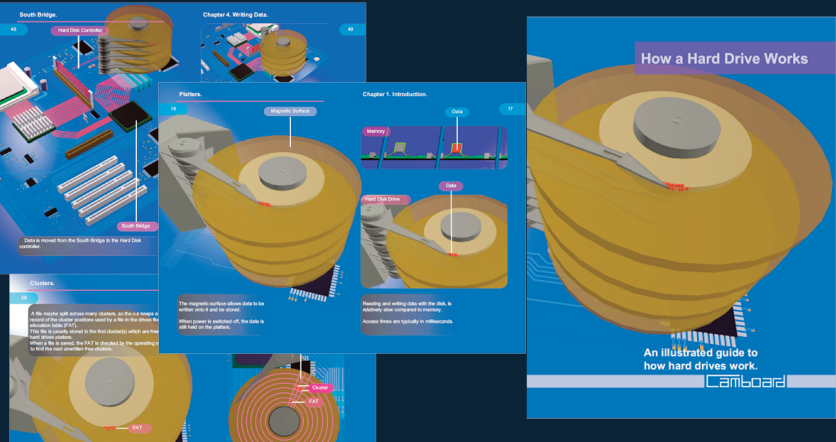
The workings of the E-IDE controller are explained.

Writing data to the hard disk is shown with full color illustrations.

The file allocation table, sectors, tracks and clusters are covered in How a Hard Drive Works.

This book will be useful to students and anyone else wishing to learn about How a Hard Drive Works.

Language: English
Copyright: All Rights Reserved - Standard Copyright License
Pages: 62
Type: Paperback, eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)



How Computer Memory Works

How Computer Memory Works introduces the main PC system memory with full color illustrations.

The book starts with an introduction to the main types of system memory.

Describes the different types of memory chips, used in system memory and VRAM. Introduces the system memory found on a computers motherboard.

Shows how data is written from the PC's CPU, into a silicon memory chip.

Data and address lines are shown along with the memory cells, transistor and capacitor.

This full color illustrative guide shows data being read from a silicon memory chip.

Shows how bits are stored in silicon memory chips.

This book will be useful to students and anyone else wishing to learn about system memory.

Language: English
Copyright: All Rights Reserved - Standard Copyright License
Pages: 40
Type: Paperback, eBook
Interior Color: Full Color
Dimensions: US Trade (6 x 9 in.)

