

## Upgrading And Repairing Pcs In Easy Steps

A practical guide to the maintenance and repair of laptop computers, including three hundred repair cases and thirteen diagnostic flowcharts.

Show your PC who's boss Nothing's more annoying than a tech malfunction, especially when it's your PC—with the exception of perhaps wading through reams of random, unreliable theories online looking for a solution, or paying an expensive tech geek to show up to perform a five-minute fix. The latest edition of *Troubleshooting & Maintaining Your PC All-in-One For Dummies* puts all this frustration behind you and gets you straight to work solving the problem yourself! In his straightforward, friendly style, Dan Gookin—bestselling tech author and all-round Mr. Fixit—packs everything you need to know into 5-books-in-1, giving you the knowledge and process to hit on the right solution, fast. From identifying common problems to methodically narrowing down to the correct fix, you'll save hours of frustrating research—and experience the sweet, righteous satisfaction of having achieved it all yourself. Pick up quick fixes Understand and reconnect networks Restore memory Boost your PC's performance Every problem has a solution and PCs are no different: get this book and you'll never catch yourself shouting at your monitor or frustrated with the motherboard again—well, maybe not quite so often.

For 25 years, *Upgrading and Repairing PCs* has been the world's #1 guide to PC hardware: The single source for reliable information on troubleshooting and fixing problems, adding hardware, optimizing performance, and building new PCs. Now, better than ever, this 22nd edition offers beefed-up coverage of the newest hardware innovations and maintenance techniques, plus more than two hours of new DVD video. Scott Mueller delivers practical answers about PC processors, mother-boards, buses, BIOSes, memory, SSD and HDD storage, video, audio, I/O, input devices, networks, Internet connectivity, power, and much more. You'll find the industry's best coverage of diagnostics, testing, and repair-plus cutting-edge discussions of improving performance via overclocking and other techniques. Mueller has taught thousands of professionals in person and millions more through his books and videos-nobody knows more about keeping PCs running perfectly. Whether you're a professional technician, a small business owner trying to save money, or a home PC enthusiast, this is the only PC hardware book you need! **NEW IN THIS EDITION** Detailed information about the Intel Turbo Boost and AMD Turbo Core built-in overclocking technology found in many new processors. Coverage of the new inexpensive "hybrid" hard drives, combining Solid State Drive (SSD) and magnetic storage technology in the same high-performance drive. Coverage of the latest USB 3.0 chipsets, drives, and other peripherals. Coverage of the latest 50Mbps and faster internet connection speeds and the hardware you need to fully take advantage of them. Coverage of the latest high-performance Solid State Drives (SSDs) and SSD technology. Technical details about the Unified Extensible Firmware Interface (UEFI) BIOS, which is required for motherboards to be able to boot from drives larger than 2TB. Detailed information about the new 4K physical sectoring advanced format used on the highest capacity hard drives. Technical details and information about the latest 32nm and 45nm multi-core processors from Intel and AMD. Detailed information about the Graphics

Processing Unit (GPU) available as an optional built-in feature in some new processors. Coverage of the latest motherboard chipsets, including support for SATA 6Gbps. Coverage of the latest SDXC (Secure Digital Extended Capacity) 4.0 and later high capacity and high performance flash drives. Detailed information about the 6/8-pin PCI Express graphics power connectors required to support the latest high-end video cards. Information about the 80 PLUS standards for highly efficient power supplies, and how this combined with proper power-management settings can save a tremendous amount of energy (and money) each year. ON THE DVD Get 2 hours of up-to-the minute, studio-quality how-to videos-all playable on your DVD player or computer! In this edition, Scott Mueller offers true insider information about several of the key components in a PC, including motherboards, solid-state drives, and more. You will see a detailed tour of a modern high-performance motherboard, showing all the components from the processor socket and CPU voltage regulators to the audio and network chipsets, and more. You'll learn how all the devices on the board are interconnected, so you can more easily understand their importance. There is a detailed segment comparing solid-state drives (SSDs) to conventional hard disk drives (HDDs), explaining all the differences and similarities between them in an easy to understand fashion. Finally, there are several segments on building a state-of-the art system from scratch using a high-performance overclockable motherboard and processor combination. You'll see tips on how to best prepare the components, how to assemble the system properly, how to make the front panel connections much easier to deal with, and finally how to route the cables for maximum airflow and ease of future upgrades or repairs.

Provides information on how to upgrade, maintain, and troubleshoot the hardware of laptop computers, discussing the differences among them as well as their various configuration options.

As the price of servers comes down to the level of desktop PCs, many small- and medium-sized businesses are forced to provide their own server setup, maintenance and support, without the high-dollar training enjoyed by their big corporation counterparts.

Upgrading and Repairing Servers is the first line of defense for small- and medium-sized businesses, and an excellent go-to reference for the experienced administrators who have been asking for a reference guide like this one for a long time! It's all here in one, incredibly useful tome that you will refer to again and again. Inside is in-depth coverage of server design and implementation, building and deploying, server hardware components, network and backup operations, SAN, fault tolerance, server racks, server rooms, server operating systems, as well as SUN Microsystems servers. No other computer hardware book has ever dared tackle this enormous topic - until now!

Stop being a prisoner to your PC! Need a PC problem fixed in a pinch? Presto! Troubleshooting & Maintaining Your PC All-in-One For Dummies offers 5 books in 1 and takes the pain out of wading through those incomprehensible manuals, or waiting for a high-priced geek to show up days or weeks after you need them. Arming you with everything you need to get that pesky PC working for you ASAP, this handy guide walks you through all the steps to restoring whatever's making your PC go rogue —so you can get back to making it work for you. There's nothing worse than firing up your PC only to discover it's inexplicably unresponsive. With this guide, you'll gain all the skills and insight you need to need to bring it back to life —and to prevent it from ever leaving you in the

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lurch again. Find out what's behind common PC problems Solve email and web woes, both big and small Perform regular maintenance and get serious about backups Troubleshoot to find solutions to your issues and learn proper maintenance to head off future headaches! Your PC problems aren't as big as you think! Take matters into your own hands with the helpful instruction provided inside this book!

In his first work of narrative nonfiction, Matthew Pearl, bestselling author of acclaimed novel *The Dante Club*, explores the little-known true story of the kidnapping of legendary pioneer Daniel Boone's daughter and the dramatic aftermath that rippled across the nation. On a quiet midsummer day in 1776, weeks after the signing of the Declaration of Independence, thirteen-year-old Jemima Boone and her friends Betsy and Fanny Callaway disappear near the Kentucky settlement of Boonesboro, the echoes of their faraway screams lingering on the air. A Cherokee-Shawnee raiding party has taken the girls as the latest salvo in the blood feud between American Indians and the colonial settlers who have decimated native lands and resources. Hanging Maw, the raiders' leader, recognizes one of the captives as Jemima Boone, daughter of Kentucky's most influential pioneers, and realizes she could be a valuable pawn in the battle to drive the colonists out of the contested Kentucky territory for good. With Daniel Boone and his posse in pursuit, Hanging Maw devises a plan that could ultimately bring greater peace both to the tribes and the colonists. But after the girls find clever ways to create a trail of clues, the raiding party is ambushed by Boone and the rescuers in a battle with reverberations that nobody could predict. As Matthew Pearl reveals, the exciting story of Jemima Boone's kidnapping vividly illuminates the early days of America's westward expansion, and the violent and tragic clashes across cultural lines that ensue. In this enthralling narrative in the tradition of Candice Millard and David Grann, Matthew Pearl unearths a forgotten and dramatic series of events from early in the Revolutionary War that opens a window into America's transition from colony to nation, with the heavy moral costs incurred amid shocking new alliances and betrayals.

Use this guide as an expert's reference or as a beginner's tutorial for maintaining and repairing PCs. --

The *Laptop Repair Workbook* includes twelve full page troubleshooting flowcharts for laptop hardware troubleshooting and explanatory text for every decision point. The book begins with an introduction to basic laptop terminology, troubleshooting procedures, and cost decisions. Supplementary illustrated tests and procedures are available on the publisher's website, [www.fonerbooks.com](http://www.fonerbooks.com). An ebook version is also available direct from the publisher.

The all-time bestselling PC reference, fully updated for the newest technologies! Previous editions of this fun and friendly PC guide have sold more than three million copies, making it the bestselling PC reference in the world. Dan Gookin, the author whose straightforward and entertaining style is the foundation of the *For Dummies* series, gives you the same easy-to-follow guidance in this edition, fully updated for Windows 8, using the cloud, and all the newest PC bells and whistles. It's perfect for the absolute beginner as well as for anyone switching to the latest hardware and software.

Updated with information on all the latest upgrades, this edition of a worldwide bestseller covers all the essentials of

using a PC, and presents them in a fun, non-intimidating style Popular technology author Dan Gookin starts at the beginning with all the basics that other books assume everyone knows Covers setting up your PC, exploring the Windows 8 interface, using network hardware and software, getting online and browsing with the newest version of Internet Explorer, setting up an e-mail account, connecting to the cloud, and using cloud-based services Shows you how to install and upgrade programs and manage files and folders Explores working with digital photos, downloading music, watching movies, and participating in social media PCs For Dummies, 12th Edition is the jargon-free, easy-to-use guide to everything you need to know about your PC.

Provides information on how to upgrade, maintain, and troubleshoot the hardware of personal computers, discussing the differences among them as well as their various configuration options.

Clear, Expert Advice for PC Users of Every Stripe No matter how you use your PC--as a business tool, an entertainment center, or an Internet on-ramp--this latest edition of The Complete PC Upgrade & Maintenance Guide has you covered. Inside, you'll find the clear, expert advice on maintaining, upgrading, and troubleshooting for which this book is famous. It's all updated to cover the latest technologies and guaranteed to help you extend the life and power of your PC. You also get targeted instruction on a wide range of entertainment upgrades--ways to enhance your enjoyment of music, photo, movies, and more. Coverage includes: \* Preventing hardware disasters \* Upgrading memory \* Replacing power supplies \* Partitioning drives using NTFS and FAT32 \* Solving data backup challenges \* Protecting your PC from viruses, worms, and spyware \* Adding SCSI cards and drives \* Installing DVDs, CD-ROMs, and EIDE and Serial ATA hard drives \* Troubleshooting printers and scanners \* Installing communications devices \* Resolving mouse and keyboard problems \* Installing video and sound cards \* Tackling networking issues, both wired and wireless \* Troubleshooting Internet connectivity \* Solving laptop problems \* Capturing and editing video \* Managing music and image files \* Watching movies on DVD \* Getting the most out of new storage and networking technologies

Most computer users think that fiddling with the insides of their PC is taboo. They fear that by removing the screws that hold the case on, they're crossing into forbidden territory. And even for those who know they can open the box and fix or upgrade their PC, analysis paralysis often stops them in their tracks: Which upgrades offer the best bang for the buck? How do you pinpoint the faulty component that's making your system freeze? What about compatibility issues? Get ready to get unstuck and get your PC running fast and running right. Repairing and Upgrading Your PC delivers start-to-finish instructions, simple enough for even the most inexperienced PC owner, for troubleshooting, repairing, and upgrading your computer. Written by hardware experts Robert Bruce Thompson and Barbara Fritchman Thompson, this book covers it all: how to troubleshoot a troublesome PC, how to identify which components make sense for an upgrade, and

how to tear it all down and put it back together. This book shows how to repair and upgrade all of your PC's essential components: Motherboard, CPU, and Memory. Choose the optimal match of these core components to keep your PC running at top speed Hard Drive, Optical Drive, and Removable Storage Give your computer what it needs for long-term and short-term storage Audio and Video. Enhance your computing experience with the right sound and graphics devices for your needs Input Devices. Pick the best keyboard and mouse to keep your hands happy and healthy Networking. Set up secure wireless networking to keep the bits flowing between your computers and the outside world Cases and Power Supplies. Keep everything running cool and reliably With its straightforward language, clear instructions, and extensive illustrations, this book makes it a breeze for PC owners of any skill level to work on their computer.

Covers upgrades for gaming, digital video, and entertainment! Transform your PC into a glitch-free, turbocharged, multimedia machine Want to add punch to your PC? This handy reference helps add power to your old computer. Easy steps show you how to add memory, update your virus protection, get your PC ready for Windows Vista or rev it up as a cool entertainment center capable of recording TV shows or hearing DVDs in surround sound. Move files from an old PC to a new one Upgrade to Windows Vista Get rid of computer viruses Configure a wireless network Add a TV tuner and DVD burner

••PCI EXPRESS is considered to be the most general purpose bus so it should appeal to a wide audience in this arena. •Today's buses are becoming more specialized to meet the needs of the particular system applications, building the need for this book. •Mindshare and their only competitor in this space, Solari, team up in this new book.

This is the only book approved by the Electronic Technician's Association as an official study guide for the Computer Service Technician exam. In this latest edition, Bigelow addresses important Y2K troubleshooting information in preparation for the millennium as well as providing a mammoth reference guide and test manual for A+ candidates, PC techs, and computer hobbyists.

PC Hardware in a Nutshell is the practical guide to buying, building, upgrading, and repairing Intel-based PCs. A longtime favorite among PC users, the third edition of the book now contains useful information for people running either Windows or Linux operating systems. Written for novices and seasoned professionals alike, the book is packed with useful and unbiased information, including how-to advice for specific components, ample reference material, and a comprehensive case study on building a PC. In addition to coverage of the fundamentals and general tips about working on PCs, the book includes chapters focusing on motherboards, processors, memory, floppies, hard drives, optical drives, tape devices, video devices, input devices, audio components, communications, power supplies, and maintenance. Special emphasis is given to upgrading and troubleshooting existing equipment so you can get the most from your existing investments. This new edition is expanded to include: Detailed information about the latest motherboards and chipsets from AMD, Intel, SiS, and VIA Extensive coverage of the Pentium 4 and the latest AMD processors, including the Athlon XP/MP Full details about new hard drive standards, including the latest

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SCSI standards, ATA/133, Serial ATA, and the new 48-bit "Big Drive" ATA interface Extended coverage of DVD drives, including DVD-RAM, DVD-R/RW, and DVD+R/RW Details about Flat Panel Displays, including how to choose one (and why you might not want to) New chapters on serial communications, parallel communications, and USB communications (including USB 2.0) Enhanced troubleshooting coverage PC Hardware in a Nutshell, 3rd Edition provides independent, useful and practical information in a no-nonsense manner with specific recommendations on components. Based on real-world testing over time, it will help you make intelligent, informed decisions about buying, building, upgrading, and repairing PCs in a cost effective manner that will help you maximize new or existing computer hardware systems. It's loaded with real-world advice presented in a concise style that clearly delivers just the information you want, without your having to hunt for it. Has Disaster Struck? If you're reading this, Something Very Bad may have already happened to your PC. Or maybe you're wisely looking ahead to any of several what-if scenarios. Either way, PC Disaster and Recovery is the book you need to recover from today's disaster and not lose sleep over the ones that lie around the corner. No matter how dire the situation, expert, step-by-step instructions will keep you cool and focused and get you back on your feet. Coverage includes: \* Understanding how hardware, OS, and applications work together \* Limiting your risks \* Assembling a PC recovery resource kit \* Drafting a disaster recovery plan \* Detecting, analyzing, and diagnosing problems \* Restarting a problem PC \* Fixing upgrading problems \* Stabilizing your operating system \* Understanding and troubleshooting hardware failures \* Avoiding power and overheating problems \* Diagnosing, monitoring, and troubleshooting performance problems \* Recovering lost and damaged files and applications \* Recovering from small-network disasters \* Finding help online \* Knowing when and how to start from scratch \* Resurrecting a dead hard drive \* Knowing when to call professionals

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

Offers extensive guidance for troubleshooting and repairing a wide variety of electronic devices on diverse platforms, including PCs, smartphones, tablets, networks, cameras, home theaters, and ereaders.

An introduction and overview of PC upgrade and repair covers memory, storage, acceleration, printing, multimedia, and troubleshooting.

A guide to fixing a personal computer covers such topics as troubleshooting, purchasing the right parts, fixing startup problems, performing basic hardware repairs and upgrades, installing a new hard disk, and adding memory.

Provides extensive coverage of all Macs and offers practical advice on Macintosh upgrades, repair, maintenance, and troubleshooting. In addition, professional tips and tricks help users save both time and money in selecting and maintaining their computers.

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 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 -

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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 [OnlineComputerTips.com](http://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.

For courses in hardware, PC troubleshooting and repair. *Upgrading & Repairing PC's*, 12th Academic Edition is a comprehensive reference guide that addresses and resolves hardware problems. This book teaches students about what goes on inside the computer. It also covers PC building, upgrading, repairing and troubleshooting. Written by Scott Mueller, the most trusted, authoritative hardware voice in the industry, it is the complete solution for hardware information.

If you've dreamed about having a customized multimedia PC or one tricked out for your favorite games, build your own and make your dreams come true! *Build Your Own PC Do-It-Yourself For Dummies* makes it easy. Not only is building your own PC a really rewarding project, it can also save you a nice chunk of cash. This step-by-step guide helps you decide what you need, teaches you what all those computer terms mean, and tells you exactly how to put the pieces together. It shows you: What tools you need (not as many as you might think!) All about operating systems How to install CD and DVD drives The scoop on sound and video, and how to put a sound system together from start to finish How to connect a monitor and install a modem All about setting up and configuring the hard drive Secrets for securing your system, and more Included is a bonus DVD showing you how to install the motherboard, CPU, RAM, ports, hard drive, video and sound cards, a DVD drive, and more. With *Build Your Own PC Do-It-Yourself For Dummies*, you can have the computer you want plus the satisfaction of doing it yourself! Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

*Upgrading and Repairing PCs: Field Guide* is a portable, "essentials" version of *Upgrading and Repairing PCs*, 13th Edition - the bestselling PC hardware book of all-time. Weighing less than half a pound, this tiny book packs a hefty punch - containing the essential information you need to upgrade and repair PCs, whether you're a hardcore pro or a weekend warrior. All of this information fits nicely in your toolkit, briefcase or backpack and be there to rescue you when you're out of your office and away from your trusty copy of *Upgrading and Repairing PCs*. Use the connector quick reference section to identify most any connector or port you run across while servicing PCs out in the wild! Who says detailed coverage must come in a big package? This diminutive book makes up for its tiny size by providing you with a

level of detail that exceeds that found in some bigger (in size and name) competitor books. Hundreds of detailed tables boil down complicated settings, standards and specifications into an easy to read - and easy to find - format. All of this detailed information easily fits in your toolkit, briefcase or book bag-right where you need it!

This popular Build-It-Yourself (BIY) PC book covers every step in building one's own system: planning and picking out the right components, step-by-step assembly instructions, and an insightful discussion of why someone would want to do it in the first place.

**BUILD IT. FIX IT. OWN IT.** A Beginner's Guide to Building and Upgrading a PC Build It. Fix It. Own It. is the ultimate beginner's guide to building and fixing your own PC. With a friendly, knowledgeable tone, this book shows the beginning PC builder everything he or she needs to know to build a computer or upgrade an existing one. We step you through the parts that lurk inside a PC, from the motherboard and power supply to the CPU, memory, hard drive, video card, sound card, and networking hardware. In each case, you will learn how the hardware works, what it does, what types of hardware are available, and what to look for when buying the hardware. Then we walk you step-by-step through a series of PC building projects. We show you how to build five different types of PC: a basic business PC, a home theater PC, a high-performance PC, a killer gaming PC, and a budget PC. And if building a new PC from scratch isn't in your budget, we show you how to resurrect an old PC by swapping out a few key components. When you have your PC built and running, we show you how to set up a wireless network and the BIOS and maintain your new rig. Build It. Fix It. Own It. is the ultimate PC builder's guide, even if you've never ventured inside a PC case before! Author Bio Paul McFedries is one of the industry's most well known and respected technical writers and is a passionate computer tinkerer. He is the author of more than 70 computer books that have sold more than three million copies worldwide. His recent titles include the Sams Publishing books Windows Vista Unleashed and Windows Home Server Unleashed and the Que Publishing books Networking with Microsoft Windows Vista, Formulas and Functions with Microsoft Excel 2007, Tricks of the Microsoft Office 2007 Gurus, and Microsoft Access 2007 Forms, Reports, and Queries. Paul also is the proprietor of Word Spy ([www.wordspy.com](http://www.wordspy.com)), a website devoted to tracking new words and phrases as they enter the English language. Category Hardware Covers PC Hardware User Level Beginner—Intermediate

From the author of Que's bestselling Upgrading and Repairing PCs comes an expert guide explaining how to retrieve lost or damaged data, implant system security, and prevent and recover from computer viruses. Introduces a variety of utility programs.

Originating out of the bestselling PC hardware book ("Upgrading and Repairing PCs"), this title features all the essential reference tables and configuration settings without the bulk. The CD-ROM contains a reference library of technical



specifications and schematics for thousands of pieces of computer hardware including hard drives, motherboards, data communication and telecommunication devices, and software drivers and patches.

### Upgrading and Repairing PCsQue

Two hours of personal, visual instruction on building a PC from scratch!

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From the author of "Upgrading and Repairing PCs, 13th Ed."--the runaway bestselling PC hardware book of all time--comes a new book which takes readers inside one of Scott's highly coveted four-day classroom seminars previously available only to corporate customers. Learn PC architecture, upgrading and repair from the ground up with this CD-ROM.

Updated and revised with eighty percent new material, this book is 100 percent of what readers need to upgrade, fix, or troubleshoot PCs Sixty-five percent of U.S. households own a PC; this book caters to the do-it-yourselfers in these households, both novices and tech hobbyists alike, who are looking for an approachable reference A one-stop reference for topics such as video, CD, and DVD; multimedia; storage; communications (network and Internet); peripherals; and integrating with laptops and handhelds Concludes with a step-by-step tutorial on building an "extreme" machine that can handle the most demanding multimedia or gaming applications Written by Marcia and Barry Press, authors of PC Toys (076454229X)

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