Upgrading and Repairing PCs (21st Edition)

Scott Mueller

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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 21st 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

- The newest processors, including Intel's 3rd generation Ivy Bridge Core i-Series processors and AMD's 2nd generation Trinity CPUs
- 3TB (and larger) disks, 4K sectoring, partition alignment, faster SATA disk interfaces, and SSD (solid state drive) hard drive replacements
- New firmware innovations, from full UEFI BIOS support to built-in motherboard flash BIOS upgrade utilities
- Integrated video and audio, including 5.1/7.1 surround sound, HDMI, and DisplayPort connections, and Windows 8 compatible multi-touch touchscreen technology
- Updated PCI Express 3.0, 4.0 interfaces, and Power Supply specifications for powering high-end video cards
- Emerging interfaces such as SATA Express, USB 3.0, and Thunderbolt
- Updated coverage of building PCs from scratch—from choosing and assembling hardware through BIOS setup and troubleshooting

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.

This DVD also contains the complete 19th and 20th editions of this book in printable form, plus extensive technical reference material, a comprehensive glossary, and more!

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