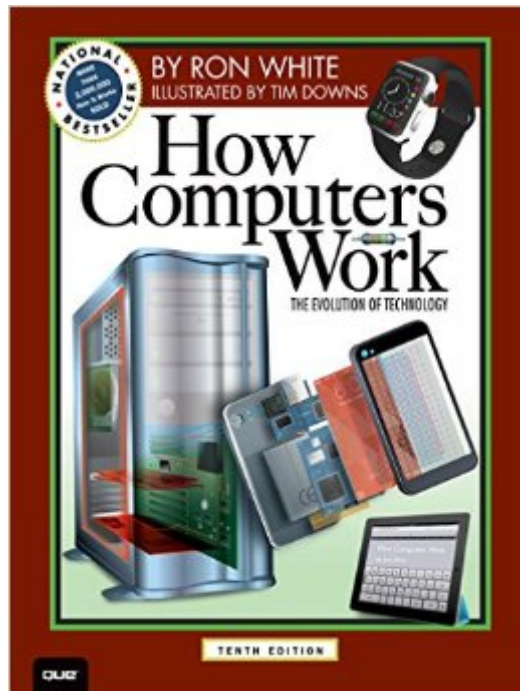# How Computers Work: The Evolution Of Technology

Synopsis

The Evolution of Technology Having sold more than 2 million copies over its lifetime, How Computers Work is the definitive illustrated guide to the world of PCs and technology. In this new edition, youâ ™ll find detailed information not just about PCs, but about how changes in technology have evolved the giant, expensive computer dinosaurs of last century into the smaller but more powerful smartphones, tablets, and wearable computing of today. Whether your interest is in business, gaming, digital photography, entertainment, communications, or security, youâ ™ll learn how computing is evolving the way you live. A full-color, illustrated adventure into the wonders of TECHNOLOOGY This full-color, fully illustrated guide to the world of technology assumes nothing and explains everything. Only the accomplished and award-winning team of writer Ron White and artist Tim Downs has the unique ability to meld descriptive text with one-of-a-kind visuals to fully explain how the electronic gear we depend on every day is made possible. In addition to all the content youâ ™ve come to expect from prior editions, this newly revised edition includes all-new coverage of topics such as: â ¢ How smartphones and tablet PCs put the power of a desktop computer in your handsâ "literally â ¢ How computing technology is linking our homes, work place, entertainment, and daily communications â ¢ How advances such as Facebook, Twitter, Google, eBay, and smartphones are expanding our universe of friends, knowledge, and opportunity â ¢ How increased miniaturization leads to new products, such as smartphone, smartwatches, and Google Glass â ¢ How computing technology takes advantages of quantum physics and innovations no one even imagined a few years ago For two decades, How Computers Work has helped newbies understand new technology, while hackers and IT pros have treasured it for the depth of knowledge it contains. This is the perfect book about computing to capture your imagination, delight your eyes, and expand your mind, no matter what your technical level! Beautifully detailed illustrations and jargon-free explanations walk you through the technology that is shaping our lives. See the hidden workings inside computers, smartphones, tablets, Google Glass, and the latest tech inventions.

Book Information

File Size: 194850 KB

Print Length: 384 pages

Simultaneous Device Usage: Up to 5 simultaneous devices, per publisher limits

Publisher: Que Publishing; 1 edition (January 30, 2015)

Publication Date: December 10, 2014

Sold by:Â Digital Services LLC

Language: English

ASIN: B00SZKC75S

Text-to-Speech: Not enabled

X-Ray for Textbooks: Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #64,067 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #2 inÂ Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Performance Optimization #23 inÂ Books > Computers & Technology > Hardware & DIY > Personal Computers > PCs #54 inÂ Kindle Store > Kindle eBooks > Computers & Technology > Hardware

Customer Reviews

I bought my grandson, a college freshman majoring in informatics, this book as a gift: How Computers Work (10th Ed.) by Ron White, First Printing, Dec. 2014. I pre-ordered it from back in November, 2014, and it did arrive in time for the holidays.While I applaud the effort and book overall, having owned several editions in the past, there are fundamental errors early in this first printing that could erode reader confidence, since the mistakes are so basic. I imagine this edition was rushed to press prior to the holiday season, and frankly, it shows.Now I must explain to my grandson the mistakes, and apologize.Here's just a sample of what I've found so far in Part 1:1. A table is not a computer, but a tablet such as an iPad is: Page 5, last paragraph: "--mainframe, desktop, table, digital music player, ... " ???2. P. 13, image 3, 4th sentence is not a sentence and doesn't help the explanation: "Resistance is how the material which the electricity is flowing." ???3. P. 15, image 5. The image of the rheostat is confusing and makes the opposite point it should. The way it is drawn, it contradicts the text. In fact, as the knob is turned clockwise, the amount of resistance should increase, not decrease as depicted in the image. When the knob in the diagram, as drawn, is turned clockwise, there is MORE resistive wire to travel through. The current out would therefore decrease. And that's just backwards to how knobs on radios and stereos normally work. Turning clockwise will increase the current out, not decrease it. Duh? See: https://www.google.com/search?q=how+does+a+rheostat+work&espv=2&biw=731&bih=387&tbm=i sch&tbo=u&source=univ&sa=X&ei=SzKtVl3mOoOnyQTDz4KoBg&ved=0CDAQsAQ&dpr=1.754. P.

I have personally been involved with computers and computer technology since 1960, from huge IBM mainframes and the initial Apple and IBM compatible PCs, to the current host of devices that allow almost everyone instant worldwide communication and access to virtually unlimited information. The evolution of this technology has been mind boggling. My former knowledge and expertise on the leading edge of this field is now lost to newer generations of science, children, and grandchildren. This book explains in simple terms with excellent illustrations the basics of computer technology.The New Jersey Computer Club, of which I am President, no longer builds, repairs, or programs computers, but tries to assist seniors in learning about, purchasing, and using computer related products. Many only want an inexpensive way to communicate by email or text with others, or to share pictures, or get information, or hear music or watch videos, and/or live in a world with online shopping and banking. But many others want to know why and how everything works. This book answers those basic questions, and introduces the concepts and terminology for further investigation.It's not a text that you must read cover to cover, getting lost in details along the way. It is a series of short well explained articles that you can peruse in any order that interests you. Today you may want to know about computer components; tomorrow the Internet; or maybe digital cameras or smart-phones. This is a great place to start. It is leisurely reading for everyone, and not a manual on a specific topic. The book title might be better, as â œHow Computer Technology Worksâ • to differentiate it from prior editions that focused more on just computers.

Who can use this book:Average Joe: noGrandma: noHigh school student: above average student requiredHigh school class text: maybeUniversity class text: too general but maybe for a non-cs student elective courseThis is a hard review to write. This book is trying to fill a difficult void in the computer science wold: how to make an accessible book for the masses about how a computer works without getting too bogged down in the details. I would say that it has failed. It is far from accessible for the everyday Joe and here is why. Besides many of the embarrassing mistakes noted by other reviewers (it is rather comical how many there are) there are umpteen examples of the author using technical words out of the blue. On almost every page in the first half of the book he tries to explain things with short paragraphs and bullet points. The explanations are full of words that the everyday Joe just wouldn't know. For example the explanation of how an ssd hard drive works is an utter failure. The image doesn't help you understand what is written and what is written confuses you. There are many highlighted words on the pages, however most are not explained. It's more like: here are some important words - go online to learn about them. To solve this he simply need to

add a glossary at the end of the book. On top of all this a few of the images in the book make the text unreadable. The color choice of dark blue images behind black text is never a good choice.I teach high school cs and read this book to see if I could use it. In its current form I could because I could provide a glossary. The every day Joe could not.

Garden City: Work, Rest, and the Art of Being Human. Big Data Fundamentals: Concepts, Drivers & Techniques (The Prentice Hall Service Technology Series from Thomas Erl) CTS-I Certified Technology Specialist-Installation Exam Guide The Five Elements First Grade Geography Series: 1st Grade Books (Children's How Things Work Books) MacBook For Dummies (For Dummies (Computers)) Hacking: How to Hack Computers, Basic Security and Penetration Testing (Hacking, How to Hack, Hacking for Dummies, Computer Hacking, penetration testing, basic security, arduino, python) Raspberry Pi: 101 Beginners Guide: The Definitive Step by Step guide for what you need to know to get started (Raspberry Pi, Raspberry, Single Board Computers, ... Pi Programming, Raspberry Pi Projects) Getting Started with Intel Edison: Sensors, Actuators, Bluetooth, and Wi-Fi on the Tiny Atom-Powered Linux Module (Make : Technology on Your Time) IIS 8 Administration: The Personal Trainer for IIS 8.0 and IIS 8.5 (The Personal Trainer for Technology) Computers For Seniors For Dummies How to Blog a Book Revised and Expanded Edition: Write, Publish, and Promote Your Work One Post at a Time Lessons Learned...: From A Corporate Guy Who Left His Job To Sell On Full Time (Selling on , FBA, Making Money Online, Work From Home, ... Home Based Business, Selling On eBay, eBay) Robotics: The Beginner's Guide to Robotic Building, Technology, Mechanics, and Processes (Robotics, Mechanics, Technology, Robotic Building, Science) Hacking: Secrets To Becoming A Genius Hacker: How To Hack Smartphones, Computers & Websites For Beginners iPad mini For Dummies (For Dummies (Computers)) Running Android: Using Your Phone and Tablet for Work and Play ECHO USER GUIDE: The Official User Guide For Using Your Echo (technology mobile communication kindle alexa computer hardware) (Echo ... & Technology Ebooks Hardware & DYI) An Illustrated Guide to Mobile Technology Business Process Technology: A Unified View on Business Processes, Workflows and Enterprise Applications Herbal Remedies: 30 Herbal Recipe Remedies From My Private Collection: Proven Herbal Recipes That Work! (Herbal Recipes Private Collection Book 1)