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Open Source Lab How To Build Your Own Hardware And Reduce Research Costs

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GOODMAN KINGSTON

Computerworld John Wiley & Sons

A guide to designing and manufacturing open source hardware covers such topics as creating derivatives of existing projects, using source files, moving from prototype to commercial production, and writing documentation for other hardware hackers.

CIO Magazine "O'Reilly Media, Inc."

This book constitutes the refereed proceedings of the 6th International IFIP WG 2.13 Conference on Open Source Systems, OSS 2010, held in Notre Dame, IN, USA, in May/June 2010. The 23 revised full papers presented together with 17 short papers, 5 workshop abstracts and 4 panel descriptions were carefully reviewed and selected from 51 submissions. The papers reflect the international communities of active OSS researchers and present a broad range of perspectives on open source systems ranging from software engineering through organizational issues to law.

DIY Manufacturing for Hackers and Makers Cambridge University Press

Open Source has become a buzzword synonymous with growth and change in computing. This book examines the Open Source movement, what's worked and why, and explains the technology to the mainstream investor and manager looking to replicate the successes of the Open Source movement.

Redefining HR Pearson Education

By closing the gap between general programming books and those on laboratory automation, this timely book makes accessible to every laboratory technician or scientist what has traditionally been restricted to highly specialized professionals. Following the idea of "learning by doing", the book provides an introduction to scripting using Autolt, with many workable examples based on real-world scenarios. A large portion of the book tackles the traditionally hard problem of instrument synchronization, including remote, web-based synchronization. Automated result processing, database operation, and creation of graphical user interfaces are also examined. Readers of this book can immediately profit from the new knowledge in terms of both increased efficiency and reduced costs in laboratory operation. Above all, laboratory technicians and

scientists will learn that they are free to choose whatever equipment they desire when configuring an automated analytical setup, regardless of manufacturers suggested specifications.

Open Source Systems Security Certification CRC Press

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Whistleblowing for Change Elsevier

Open Source Software for Digital Forensics is the first book dedicated to the use of FLOSS (Free Libre Open Source Software) in computer forensics. It presents the motivations for using FLOSS applications as tools for collection, preservation and analysis of digital evidence in computer and network forensics. It also covers extensively several forensic FLOSS tools, their origins and evolution. Open Source Software for Digital Forensics is based on the OSSCoNF workshop, which was held in Milan, Italy, September 2008 at the World Computing Congress, co-located with OSS 2008. This edited volume is a collection of contributions from researchers and practitioners world

wide. Open Source Software for Digital Forensics is designed for advanced level students and researchers in computer science as a secondary text and reference book. Computer programmers, software developers, and digital forensics professionals will also find this book to be a valuable asset.

How to Build Your Own Hardware and Reduce Research Costs Hachette Books

Open-source LabHow to Build Your Own Hardware and Reduce Research CostsElsevier Science Limited

OpenIntro Statistics Springer Science & Business Media

Describes the legal implications of open source and free software licensing and provides an explanation of what an open source software license actually is, and how to draft one for personal use.

Voices from the Open Source Revolution IGI Global

Open Source Systems Security Certification discusses Security Certification Standards and establishes the need to certify open source tools and applications. This includes the international standard for the certification of IT products (software, firmware and hardware) Common Criteria (ISO/IEC 15408) (CC 2006), a certification officially adopted by the governments of 18 nations. Without security certification, open source tools and applications are neither secure nor trustworthy. Open Source Systems Security Certification addresses and analyzes the urgency of security certification for security-sensible markets, such as telecommunications, government and the military, through provided case studies. This volume is designed for professionals and companies trying to implement an Open Source Systems (OSS) aware IT governance strategy, and SMEs looking to attract new markets traditionally held by proprietary products or to reduce costs. This book is also suitable for researchers and advanced-level students.

Open-source LabHow to Build Your Own Hardware and Reduce Research Costs

National Bestseller Winner of the National Book Critics Circle Award for Autobiography A New York Times Notable Book Geobiologist Hope Jahren has spent her life studying trees, flowers, seeds, and soil. Lab Girl is her revelatory treatise on plant life—but it is also a celebration of the lifelong curiosity, humility, and passion that drive every scientist. In these pages, Hope takes us back to her Minnesota childhood, where she spent hours in unfettered play in her father's college laboratory. She tells us how she found a sanctuary in science, learning to perform lab work "with both the heart and the hands." She introduces us to Bill, her brilliant, eccentric lab manager. And she extends the mantle of scientist to each one of her readers, inviting us to join her in observing and protecting our environment. Warm, luminous, compulsively readable, Lab Girl vividly demonstrates the mountains that we can move when love and work come together. Winner of the American Association for the Advancement of Science/Subaru Science Books & Film Prize for Excellence in Science Books Finalist for the PEN/E.O. Wilson Literary Science Writing Award One of the Best Books of the Year: The Washington Post, TIME.com, NPR, Slate, Entertainment Weekly, Newsday, Minneapolis Star Tribune, Kirkus Reviews

[Which OpenSource software is mature enough to replace proprietary software and bring financial savings to Enterprises?](#) Oxford University Press, USA

CIO magazine, launched in 1987, provides business technology leaders with award-winning analysis and insight on information technology trends and a keen understanding of IT's role in achieving business goals.

Free Academic Press

In 2004/5, over half of IT professionals will be looking at open source, most for the first time. This book provides key tools for System administrators, Network Administrators, IT project managers, and consultants who must evaluate and deploy open source software. This book details open source successes so far, explains which scenarios are the most realistic opportunities now, then gives the details needed to select these solutions, adopt the best tools and practices, introduce them to an organization, implement and manage them. The IT professional can use this book to review opportunities in their organization, evaluate components such as Apache, Linux, and

OpenOffice against systems they know, and follow up in detail on their specific interests here and through referred resources. *Deployment scenarios categorized by function and industry *Rules of thumb on where and when open source software is or is not the right choice *Roadmaps for deployment in terms of the components of open source

[Open Source Software for Digital Forensics](#) Addison-Wesley Professional

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

[Open Source](#) Springer Nature

Knowing about the open source alternative to integrated library systems and being able to make accurate comparisons can save a library tens to hundreds of thousands of dollars a year while more closely matching the library's functional needs.

Penetration Tester's Open Source Toolkit Elsevier

Open-Source Lab: How to Build Your Own Hardware and Reduce Scientific Research Costs details the development of the free and open-source hardware revolution. The combination of open-source 3D printing and microcontrollers running on free software enables scientists, engineers, and lab personnel in every discipline to develop powerful research tools at unprecedented low costs. After reading Open-Source Lab, you will be able to: Lower equipment costs by making your own hardware Build open-source hardware for scientific research Actively participate in a community in which scientific results are more easily replicated and cited Numerous examples of technologies and the open-source user and developer communities that support them Instructions on how to take advantage of digital design sharing Explanations of Arduinos and RepRaps for scientific use A detailed guide to open-source hardware licenses and basic principles of intellectual property

Network World Apress

Clinical Engineering Handbook, Second Edition, covers modern clinical engineering topics, giving experienced professionals the necessary skills and knowledge for this fast-evolving field. Featuring insights from leading international experts, this book presents traditional practices, such as healthcare technology management, medical device service, and technology application. In addition, readers will find valuable information on the newest research and groundbreaking developments in clinical engineering, such as health technology assessment, disaster preparedness, decision support systems, mobile medicine, and prospects and guidelines on the future of clinical engineering. As the biomedical engineering field expands throughout the world, clinical engineers play an increasingly important role as translators between the medical, engineering and business professions. In addition, they influence procedures and policies at research facilities, universities, and in private and government agencies. This book explores their current and continuing reach and its importance. Presents a definitive, comprehensive, and up-to-date resource on clinical engineering Written by worldwide experts with ties to IFMBE, IUPESM, Global CE Advisory Board, IEEE, ACCE, and more Includes coverage of new topics, such as Health Technology Assessment (HTA), Decision Support Systems (DSS), Mobile Apps, Success Stories in Clinical Engineering, and Human Factors Engineering

Penetration Tester's Open Source Toolkit ScholarlyEditions

The courageous acts of whistleblowing that inspired the world over the past few years have changed our perception of surveillance and control in today's information society. But what are the wider effects of whistleblowing as an act of dissent on politics, society, and the arts? How does it contribute to new courses of action, digital tools, and contents? This urgent intervention based on the work of Berlin's Disruption Network Lab examines this growing phenomenon, offering interdisciplinary pathways to empower the public by investigating whistleblowing as a developing political practice that has the ability to provoke change from within.

Made Easy with Autolt Newnes

Open-source development has been around for decades, with software developers co-creating tools and information systems for widespread use. With the development of open-source software such as learning objects, interactive articles, and educational games, the open-source values and

practices have slowly been adopted by those in education sectors. Open-Source Technologies for Maximizing the Creation, Deployment, and Use of Digital Resources and Information highlights the global importance of open-source technologies in higher and general education. Written for those working in education and professional training, this collection of research explores a variety of issues related to open-source in education, such as its practical underpinnings, requisite cultural competence in global open-source, strategies for employing open-source in online learning and research, the design of an open-source networking laboratory, and other endeavors. It aims to enhance workplace practices in harnessing open-source resources in a time of budgetary frugality. **The New Shop Class** Springer Science & Business Media

Freely available source code, with contributions from thousands of programmers around the world: this is the spirit of the software revolution known as Open Source. Open Source has grabbed the computer industry's attention. Netscape has opened the source code to Mozilla; IBM supports Apache; major database vendors have ported their products to Linux. As enterprises realize the power of the open-source development model, Open Source is becoming a viable mainstream alternative to commercial software. Now in Open Sources, leaders of Open Source come together for the first time to discuss the new vision of the software industry they have created. The essays in this volume offer insight into how the Open Source movement works, why it succeeds, and where it is going. For programmers who have labored on open-source projects, Open Sources is the new gospel: a powerful vision from the movement's spiritual leaders. For businesses integrating open-source software into their enterprise, Open Sources reveals the mysteries of how open development builds better software, and how businesses can leverage freely available software for a competitive business advantage. The contributors here have been the leaders in the open-source arena: Brian Behlendorf (Apache) Kirk McKusick (Berkeley Unix) Tim O'Reilly (Publisher, O'Reilly & Associates) Bruce Perens (Debian Project, Open Source Initiative) Tom Paquin and Jim Hamerly (mozilla.org, Netscape) Eric Raymond (Open Source Initiative) Richard Stallman (GNU, Free Software Foundation, Emacs) Michael Tiemann (Cygnus Solutions) Linus Torvalds (Linux) Paul Vixie (Bind) Larry Wall (Perl) This book explains why the majority of the Internet's servers use open-source technologies for everything from the operating system to Web serving and email. Key technology products developed with open-source software have overtaken and surpassed the commercial efforts of billion dollar companies like Microsoft and IBM to dominate software markets. Learn the inside story of what led Netscape to decide to release its source code using the open-source mode. Learn how Cygnus Solutions builds the world's best compilers by sharing the source code. Learn why venture capitalists are eagerly watching Red Hat Software, a company that gives its key product -- Linux -- away. For the first time in print, this book presents the story of the open-source phenomenon told by the people who created this movement. Open Sources will bring you into the world of free software and show you the revolution.

[Lab Girl](#) Rowman & Littlefield

How can you help your Drupal website continue to perform at the highest level as it grows to meet demand? This comprehensive guide provides best practices, examples, and in-depth explanations for solving several performance and scalability issues. You'll learn how to apply coding and infrastructure techniques to Drupal internals, application performance, databases, web servers, and performance analysis. Covering Drupal versions 7 and 8, this book is the ideal reference for everything from site deployment to implementing specific technologies such as Varnish, memcache, or Solr. If you have a basic understanding of Drupal and the Linux-Apache-MySQL-PHP (LAMP) stack, you're ready to get started. Establish a performance baseline and define goals for improvement Optimize your website's code and front-end performance Get best and worst practices for customizing Drupal core functionality Apply infrastructure design techniques to launch or expand a site Use tools to configure, monitor, and optimize MySQL performance Employ alternative storage and backend search options as your site grows Tune your web servers through httpd and PHP configuration Monitor services and perform load tests to catch problems before they become critical

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