

Recommended Reading List for Developers

2nd Half 2011



The Recommended Reading List is a valuable resource for technical professionals who want to thoroughly explore topics such as software threading, wireless technologies, power management, and more. Dozens of industry technologists, corporate fellows, and engineers have helped by suggesting books and reviewing the list.

Books For Hardware Developers

		Publisher/ISBN
I/O Technologies	Beyond BIOS 2nd Edition <i>Vincent Zimmer, Michael Rothman, Suresh Marisetty</i>	Intel Press 9781934053294
	Harnessing the UEFI Shell <i>Michael Rothman, Tim Lewis, Vincent Zimmer and Robert Hale</i>	Intel Press 9781934053140
	Mastering High Performance Multiprocessor Signaling <i>David Coleman and Michael Mirmak</i>	Intel Press 9781934053164
	Weaving High Performance Multiprocessor Fabric <i>Robert A. Maddox, Gurbir Singh, Robert J. Safranek</i>	Intel Press 9781934053188
	Breaking Through the BIOS Barrier: The Definitive BIOS Optimization Guide for PCs <i>Adrian Wong</i>	Prentice Hall 9780131455368
	USB Complete: The Developer's Guide <i>Jan Axelson</i>	Lakeview Research 9781931448086
	Designing High-Speed Interconnect Circuits <i>Dennis Miller</i>	Intel Press 0974364967
	Jitter, Noise, and Signal Integrity at High-Speed <i>Mike Peng Li</i>	Prentice Hall 0132429616
	Timing Analysis and Simulation for Signal Integrity Engineers <i>Greg Edlund</i>	Prentice Hall 0132365049
	High-Speed Signal Propagation: Advanced Black Magic <i>Howard W. Johnson</i>	Prentice Hall 9780130844088
	Introduction to Electromagnetic Compatibility, 2nd Ed <i>Clayton R. Paul</i>	Wiley 9780471755005
	Signal Integrity and Radiated Emission of High-Speed Digital Systems <i>Spartaco Caniggia, Francescaromana Maradei</i>	Wiley 9780470511664
	Introduction to PCI Express* <i>Adam Wilen, Justin Schade, and Ron Thornburg</i>	Intel Press 0970284691
	PCI Express* Electrical Interconnect Design <i>Dave Coleman, Scott Gardiner, Mohammad Kolbehdari and Stephen Peters</i>	Intel Press 0974364991
	PCI Express System Architecture <i>Ravi Budruk, Don Anderson, Tom Shanley</i>	Addison-Wesley 9780321156303
	USB Design by Example, 2nd Edition <i>John Hyde</i>	Intel Press 0970284659
	Power and Thermal Management	Mobile Displays: Technology and Applications <i>Achintya K. Bhowmik, Zili Li, Philip J. Bos</i>
InfiniBand Architecture: Development and Deployment <i>William T. Futral</i>		Intel Press 0970284667
Thermal Guidelines For Data Processing Environments <i>TC9.9 Mission Critical Facilities</i>		ASHRAE 9781931862431
Building the Power Efficient PC <i>Jerzy Kolinski, Ram Chary, Andrew Henroid and Barry Press</i>		Intel Press 0970284683
Datacom Equipment Power Trends and Cooling Applications <i>Refrigerating and Air-Conditioning Engineers American Society of Heating</i>		ASHRAE 1931862656

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		Publisher/ISBN
	More Hot Air <i>Tony Kordyban</i>	ASME Press 079180223X
	Power Management in Mobile Devices <i>Findlay Shearer</i>	Newnes 9780750679589
	Thermal and Power Management of Integrated Circuits <i>Arman Vassighi, Manoj Sachdev</i>	Springer 9781441938329
Storage Technologies	Raidbook, 6th Edition: A Storage System Technology Handbook <i>Paul Massiglia</i>	Annabooks 9781573980289
	SAS Storage Architecture: Serial Attached SCSI <i>Mike Jackson, MindShare, Inc.</i>	Mindshare Press 9780977087808
	Serial ATA Storage Architecture and Applications <i>Knut Grimsrud, Hubbert Smith</i>	Intel Press 0971786186
	Storage Network Performance Analysis <i>Huseyin Simitci</i>	Wiley 076451685X
	Storage Networking Fundamentals <i>Marc Farley</i>	Cisco Press 1587051621
Wireless Technologies	Advanced Wireless Networks: Cognitive, Cooperative & Opportunistic 4G Technology 2nd Edition <i>Savo Glisic, Beatriz Lorenzo</i>	Wiley 9780470742501
	Microwave Engineering, 3rd Edition <i>David M. Pozar</i>	Wiley 0471448788
	Next-Generation Wireless LANs: Throughput, Robustness, and Reliability in 802.11n <i>Eldad Perahia, Robert Stacey</i>	Cambridge University Press 0596100523
	802.11 Wireless Networks: The Definitive Guide <i>Matthew Gast</i>	O'Reilly 0596100523
	Implementing 802.11, 802.16, and 802.20 Wireless Networks <i>Ron Olexa</i>	Newnes 0750678089
	Beyond 3G - Bringing Networks, Terminals and the Web Together: LTE, WiMAX, IMS, 4G Devices and the Mobile Web 2.0 <i>Martin Sauter</i>	Wiley 9780470751886
	Towards 4G Technologies: Services With Initiative <i>Hendrik Berndt</i>	Wiley 0470010312
	Cooperating Embedded Systems and Wireless Sensor Networks <i>Michael Banatre, Pedro Jose Marron, Anibal Ollero and Adam Wolisz</i>	Wiley 1848210000
	Principles of Embedded Networked Systems Design <i>Gregory J. Pottie, William J. Kaiser</i>	Cambridge University Press 0521095239
	Multi-Platform Wireless Web Applications: Cracking the Code <i>Dreamtech Software Team</i>	Wiley 0764549030
	Ultra-wideband Radio Technology <i>Kazimierz Siviak, Debra McKeown</i>	Wiley 0470859318
	Real 802.11 Security: Wi-Fi Protected Access and 802.11i <i>Jon Edney, William A. Arbaugh</i>	Addison-Wesley 9780321136206
	Ultra-Wideband Wireless Communications and Networks <i>Xuemin Shen, Mohsen Guizani</i>	Wiley 9780470011447
	WiMAX Handbook: Building 802.16 Networks <i>Frank Ohrtman</i>	McGraw-Hill 9780071454018
	WiMAX Operator's Manual: Building 802.16 Wireless Networks <i>Daniel Sweeney</i>	Apress 9781590593578
	Fundamentals of WiMAX: Understanding Broadband Wireless Networking <i>Jeffrey G. Andrews, Arunabha Ghosh, Rias Muhamed</i>	Prentice Hall 9780132225526
	Wireless Hacks: Tips & Tools for Building, Extending, and Securing Your Network <i>Rob Flickenger, Roger Weeks</i>	O'Reilly 9780596101442

Books For Software Developers

		Publisher/ISBN
Software Threading for Many Core Architectures	An Introduction to Parallel Programming <i>Peter Pacheco</i>	Morgan Kaufmann 9780123742605
	C# Threading Handbook <i>Tobin Titus, Sandra Gopikrishna, Tejaswi Redkar, Srinivasa Sivakumar</i>	Wrox 9781861008299
	Computer Architecture: A Quantitative Approach 4th Edition <i>John L. Hennessy and David Patterson</i>	Morgan Kaufmann 9780123704900

Books For Software Developers

	Publisher/ISBN
Java Concurrency in Practice <i>Brian Goetz, Tim Peierls, Joshua Bloch, Joseph Bowbeer, David Holmes, Doug Lea</i>	Addison-Wesley 9780321349606
Multi-Core Programming <i>Shameem Akhter, Jason Roberts</i>	Intel Press 0976483246
Multithreading Applications in Win32: The Complete Guide to Threads <i>Jim Beveridge, Robert Wiener</i>	Addison-Wesley 9780201442342
Parallel Programming in C with MPI and OpenMP <i>Michael J. Quinn</i>	McGraw-Hill 0072822562
Parallel Programming in OpenMP <i>Rohit Chandra, Ramesh Menon, Leo Dagum, Dave Kohr, Dror Maydan, and Jeff McDonald</i>	Morgan Kaufmann 1558606718
Using OpenMP: Portable Shared Memory Parallel Programming <i>Barbara Chapman, Gabriele Jost, Ruud van der Pas, David J. Kuck</i>	MIT Press 0262533022
Parallel Programming with MPI <i>Peter Pacheco</i>	Morgan Kaufmann 1558603395
Patterns for Parallel Programming <i>Timothy G. Mattson, Beverly A. Sanders, Berna L. Massingill</i>	Addison-Wesley 0321228111
The Art of Concurrency <i>Clay Breshears</i>	O'Reilly 9780596521530
Programming with Hyper-Threading Technology <i>Andrew Binstock, Richard Gerber</i>	Intel Press 0971786143
Programming with POSIX* Threads <i>David R. Butenhof</i>	Addison-Wesley 0201633922
The Software Optimization Cookbook, Second Edition <i>Richard Gerber, Aart J.C. Bik, Kevin Smith, Xinmin Tian</i>	Intel Press 0976483211
Optimizing Applications for Multi-Core Processors <i>Stewart Taylor</i>	Intel Press 1934053015
Intel Threading Building Blocks: Outfitting C++ for Multi-Core Processor Parallelism <i>James Reinders</i>	O'Reilly 0596514808
Threads Primer: A Guide to Multithreaded Programming <i>Bil Lewis, Daniel J. Berg</i>	Prentice Hall 0134436989
Interconnecting Smart Objects with IP: The Next Internet <i>Jean-Philippe Vasseur, Adam Dunkels</i>	Morgan Kaufmann 9780123751652
Beyond BIOS: Developing with the Unified Extensible Firmware Interface 2nd Edition <i>Vincent Zimmer, Michael Rothman, Suresh Marisetty</i>	Intel Press 9781934053294
The Art of Multiprocessor Programming <i>Maurice Herlihy, Nir Shavit</i>	Morgan Kaufmann 9780123705914
Programming Massively Parallel Processors: A Hands-on Approach <i>David B. Kirk, Wen-mei W. Hwu</i>	Morgan Kaufmann 9780123814722
A Practical Guide to Trusted Computing <i>David Challenger, Kent Yoder, Ryan Catherman, David Safford, Leendert Van Doorn</i>	IBM Press 9780132398428
Software Development for Embedded Multi-core Systems: A Practical Guide Using Embedded Intel* Architecture <i>Max Domeika</i>	Newnes 750685395
C Interfaces and Implementations: Techniques for Creating Reusable Software <i>David R. Hanson</i>	Addison-Wesley 201498413
Code Complete, Second Edition <i>Steve McConnell</i>	Microsoft Press 0735619670
IA-64 Linux Kernel: Design and Implementation <i>David Mosberger, Stephane Eranian</i>	Prentice Hall 0130610143
Intel* Integrated Performance Primitives: How to Optimize Software Applications Using Intel IPP <i>Stewart Taylor</i>	Intel Press 971786135
Mac OS X Internals: A Systems Approach <i>Amit Singh</i>	Addison-Wesley 0321278542
Windows* Internals, 5th Edition <i>Mark E. Russinovich, David A. Solomon</i>	Microsoft Press 0735625301
The C Programming Language, 2nd Edition <i>Brian W. Kernighan, Dennis Ritchie</i>	Prentice Hall 0131103628
Programming: Principles and Practice Using C++ <i>Bjarne Stroustrup</i>	Addison-Wesley 9780321543721

Software Development

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		Publisher/ISBN
	The Common Language Infrastructure Annotated Standard <i>Jim Miller, Susann Ragsdale</i>	Addison-Wesley 0321154932
	The Software Vectorization Handbook <i>Aart J.C. Bik</i>	Intel Press 0974364924
	UPnP Design by Example <i>Michael Jeronimo, Jack Weast</i>	Intel Press 0971786119
	VTune™ Performance Analyzer Essentials <i>James Reinders</i>	Intel Press 0974364959
	Itanium® Architecture for Programmers: Understanding 64-Bit Processors and EPIC Principles <i>James S. Evans, Gregory L. Trimper</i>	Prentice Hall 9780131013728
High Throughput Computing	Building Clustered Linux Systems <i>Robert W. Lucke</i>	Prentice Hall 9780131448537
	Software Optimization for High Performance Computing: Creating Faster Applications <i>Isom Crawford, Kevin Wadleigh</i>	Prentice Hall 9780130170088
	Grid Computing: The New Frontier of High Performance Computing (Volume 14) <i>Lucio Grandinetti</i>	Morgan Kaufmann 0444519998
	High Performance Cluster Computing: Architectures and Systems <i>Rajkumar Buyya</i>	Prentice Hall 9780130137845
	High Performance Computing Systems and Applications <i>Robert D. Kent, Todd W. Sands</i>	Springer 9781402073892
	High Performance Computing: Paradigm and Infrastructure <i>Laurence T. Yang, Minyi Guo</i>	Wiley 9780471654711
	Principles of Transaction Processing <i>Philip A. Bernstein, Eric Newcomer</i>	Morgan Kaufmann 9781558606234
	Transaction Processing: Concepts and Techniques <i>Jim Gray, Andreas Reuter</i>	Morgan Kaufmann 9781558601901
	Using MPI-2 <i>William Gropp, Ewing Lusk, Rajeev Thakur</i>	MIT Press 9780262571333
Graphics, Gaming and Visual Computing Technologies	Game Programming Gems 8 <i>Adam Lake</i>	Course Technology PTR 9781584507024
	OpenGL Programming Guide: The Official Guide to Learning OpenGL, Versions 3.0 and 3.1, 7th Edition <i>Dave Shreiner, The Khronos OpenGL ARB Working Group</i>	Addison-Wesley 9780321552624
	OpenGL® Shading Language, 3rd Edition <i>Randi Rost, Bill Licea-Kane</i>	Addison-Wesley 9780321637635
	ShaderX6: Advanced Rendering Techniques <i>Wolfgang Engel</i>	Charles River Media 1584504994
Developing Customer-Focused Products	Designing for the Digital Age: How to Create Human-Centered Products and Services <i>Kim Goodwin</i>	Wiley 9780470229101
	Designing the User Interface: Strategies for Effective Human-Computer Interaction (5th Edition) <i>Ben Shneiderman</i>	Addison-Wesley 9780321537355
	Audio in the 21st Century <i>Scott Janus</i>	Intel Press 0971786151
	Digital Video and HDTV Algorithms and Interfaces <i>Charles Poynton</i>	Morgan Kaufmann 1558607927
	Fundamentals of Audio and Video Programming for Games <i>Peter Turcan, Mike Wasson</i>	Microsoft Press 073561945X
	High Definition Audio for the Digital Home <i>David Roach, Scott Janus, and Wayne Jones</i>	Intel Press 097648322X
	Psychoacoustics: Facts and Models, 3rd Edition <i>Hugo Fastl and Eberhard Zwicker</i>	Springer 3540231595
	Usability in Practice: How Companies Develop User-Friendly Products <i>Michael E. Wiklund</i>	Morgan Kaufmann 9780127512501

Books For Embedded Developers

		Publisher/ISBN
Design:	TCP/IP Lean: Web Servers for Embedded Systems <i>Jeremy Bentham</i>	CMP Books 157820108X
	Hardware/Firmware Interface Design: Best Practices for Improving Embedded Systems Development <i>Gary Stringham</i>	Newnes 9781856176057
	Hardware Software Co-Design of a Multimedia SOC Platform <i>Sao-Jie Chen, Guang-Huei Lin, Pao-Ann Hsiung, Yu-Hen Hu</i>	Springer 9781402096228
	Principles of Embedded Networked Systems Design <i>Gregory J. Pottie, William J. Kaiser</i>	Cambridge University Press 9780521840125
	Cooperating Embedded Systems and Wireless Sensor Networks <i>Michel Banatre, Pedro Jose Marron, Adam Wolisz</i>	Wiley 9781848210004
Software:	Linux Device Drivers, Third Edition <i>Jonathan Corbet, Alessandro Rubini, Greg Kroah-Hartman</i>	O'Reilly 9780596005900
	Linux Core Kernel Commentary 2nd Edition <i>Scott Maxwell</i>	Coriolis Group Books 9781576104699
	Embedded signal processing with the Micro Signal Architecture <i>Woon-Seng Gan</i>	Wiley 9780471738411
	Break Away with Intel® Atom™ Processors <i>Lori Matassa, Max Domeika</i>	Intel Press 9781934053379
	Software Development for Embedded Multi-core Systems: A Practical Guide Using Embedded Intel Architecture <i>Max Domeika</i>	Morgan Kaufmann 9780750685399
	Embedded Media Processing <i>David J. Katz, Rick Gentile</i>	Newnes 9780750679121
	Multi-Core Embedded Systems <i>Georgios Kornaros</i>	CRC Press 9781439811610
Operating Systems:	Embedded Linux Primer: A practical Real-World Approach, 2nd Edition <i>Christopher Hallinan</i>	Prentice Hall 9780137017836
	Linux Appliance Design: A Hands-On Guide to Building Linux Appliances <i>Bob Smith, John Hardin, Graham Phillips, Bill Pierce</i>	No Starch Press 9781593271404
	Building Embedded Linux Systems, 2nd Edition <i>Karim Yaghmour, Jon Masters, Gilad Ben-Yossef, Philippe Gerum</i>	O'Reilly 9780596529680
	Real-Time Systems: Theory and Practice <i>Rajib Mall</i>	Prentice Hall 9788131700693
	Real-Time Embedded Systems and Components <i>Sam Siewert</i>	Charles River Media 9781584504689
Security:	Secure Integrated Circuits and Systems <i>Ingrid M.R. Verbauwhede</i>	Springer 9780387718279
	Security in Embedded Devices <i>Catherine H. Gebotys</i>	Springer 9781441915290
Optimization:	Advanced Memory Optimization Techniques for Low-Power Embedded Processors <i>Manish Verma, Peter Marwedel</i>	Springer 9781402058967
	System-Level Design Techniques for Energy-Efficient Embedded Systems <i>Marcus T. Schmitz, Bashir M. Al-Hashimi, Petru Eles</i>	Springer 9781441954299

Books for IT Professionals

		Publisher/ISBN
Strategic IT Decisions	Screen Future <i>Brian David Johnson</i>	Intel Press 9781934053263
	The Business Value of Virtual Service-Oriented Grids (Strategic Insights for Enterprise Decision Makers) <i>Enrique Castro-leon, Jackson He, Mark Chang, Parviz Peiravi</i>	Intel Press 1934053104
	Managing Information Technology for Business Value <i>Martin Curley</i>	Intel Press 0971786178
	Enriching the Value Chain: Infrastructure Strategies Beyond the Enterprise <i>Bruce Robertson, Valentin Sribar</i>	Intel Press 0971288739
	Building Operational Excellence: IT People and Process Best Practices <i>Bruce Allen, Dale Kutnick</i>	Intel Press 974364975
	Measuring the Business Value of Information Technology <i>David Sward</i>	Intel Press 0976483270
	Managing IT Innovation for Business Value <i>Esther Baldwin, Martin Curley</i>	Intel Press 9781934053041

Books for IT Professionals

	Publisher/ISBN
Server/Data Center Technologies The Green and Virtual Data Center <i>Greg Schulz</i>	CRC Press 9781420086669
Creating the Infrastructure for Cloud Computing <i>Enrique Castro-Leon, Bernard Golden, Miguel Gomez</i>	Intel Press 9781934053270
A Vision for Platform Autonomy <i>Rahul Khanna, Mohan J. Kumar</i>	Intel Press 9781934053256
Windows Server 2008 R2 Hyper-V: Insiders Guide to Microsoft's Hypervisor <i>John Kelbley, Mike Sterling</i>	Sybex 9780470627006
Mastering Virtual Machine Manager 2008 R2 <i>Michael Michael, Hector Linares</i>	Sybex 9780470463321
Windows Server 2008 Terminal Services Resource Kit <i>Christa Anderson, Kristin L. Griffin</i>	Microsoft Press 9780735625853
Windows* Server 2008 Hyper-V Resource Kit <i>Robert Larson, Janique Carbone</i>	Microsoft Press 9780735625174
Mastering VMware vSphere 4 <i>Scott Lowe</i>	Sybex 9780470481387
Scripting VMware Power Tools: Automating Virtual Infrastructure Administration <i>Al Muller</i>	Syngress Publishing 9780080516776
Professional Xen Virtualization <i>William von Hagen</i>	Wiley 9780470138113
VMware vSphere and Virtual Infrastructure Security: Securing the Virtual Environment <i>Edward Haletky</i>	Prentice Hall 9780137158003
VMware ESX Server in the Enterprise: Planning and Securing Virtualization Servers <i>Edward L. Haletky</i>	Prentice Hall 9780132302074
Mastering VMware Infrastructure 3 <i>Chris McCain</i>	Sybex 9780470183137
SOA Design Patterns <i>Thomas Erl</i>	Prentice Hall 0136135161
Service-Oriented Architecture (SOA): Concepts, Technology, and Design <i>Thomas Erl</i>	Prentice Hall 0131858580
Service-Oriented Architecture Demystified <i>Girish Juneja, Blake Dournaee, Joe Natoli, and Steve Birkel</i>	Intel Press 1934053023
Service-Oriented Architecture (SOA): A Planning and Implementation Guide for Business and Technology <i>Eric A. Marks, Michael Bell</i>	Wiley 0471768944
SOA Principles of Service Design <i>Thomas Erl</i>	Prentice Hall 0132344823
Energy Efficiency for Information Technology: How to Reduce Power Consumption in Servers and Data Centers <i>Lauri Minas, Brad Ellison</i>	Intel Press 1934053201
Design Considerations for Datacom Equipment Centers <i>Refrigerating and Air-Conditioning Engineers American Society of Heating</i>	ASHRAE 193186294X
Internet Communications Using SIP: Delivering VoIP and Multimedia Services with Session Initiation Protocol <i>Henry Sinnreich, Alan B. Johnston</i>	Wiley 0471776572
IPTV Crash Course <i>Joseph M. Weber, Tom Newberry</i>	McGraw-Hill Osborne Media 007226392X
Virtual Machines: Versatile Platforms for Systems and Processes <i>Jim Smith, Ravi Nair</i>	Morgan Kaufmann 1558609105
Patterns of Enterprise Application Architecture <i>Martin Fowler</i>	Addison-Wesley 0321127420
Server Consolidation With the IBM Server Xseries 440 and VMware ESX Server <i>Steve Russell, Keith Olsen, Gabriel Sallah, Chandra Seetharaman, David Watts</i>	IBM Press 0738426849
Securing Business Information: Strategies to Protect the Enterprise and Its Network <i>F. Christian Byrnes, Dale Kutnick</i>	Intel Press 0971288747
Itanium* Architecture for Software Developers <i>Walter Triebel</i>	Intel Press 0970284640
Programming Itanium*-based Systems <i>Walter Triebel, Joseph Bissell, Rick Booth</i>	Intel Press 0970284624
Scientific Computing on Itanium*-based Systems <i>Marius Cornea, Ping Tak Peter Tang, John Harrison</i>	Intel Press 0971288771

Books for IT Professionals

	Publisher/ISBN
Client Technologies Dynamics Of A Trusted Platform: A Building Block Approach <i>David Grawrock</i>	Intel Press 1934053082
Building Applications with the Linux Standard Base <i>Linux Standard Base Team</i>	IBM Press 0131456954
Active Platform Management Demystified: Unleashing the Power of Intel® vPro™ Technology <i>Arvind Kumar, Purushottam Goel, Ylian Saint-Hilaire</i>	Intel Press 1934053198
Nonvolatile Memory Technologies with Emphasis on Flash: A Comprehensive Guide to Understanding and Using Flash Memory Devices <i>Joseph E. Brewer</i>	Wiley 0471770027
Practical Guide to Trusted Computing <i>David Challener, Kent Yoder, Ryan Catherman, David Safford, Leendert Van Doorn</i>	IBM Press 132398427
Cisco Network Admission Control, Volume I: NAC Framework Architecture and Design <i>Denise Helfrich, Lou Ronnau, Jason Frazier, Paul Forbes</i>	Cisco Press 1587052415
Windows Server® 2008 Networking and Network Access Protection <i>Joseph Davies and Tony Northrup</i>	Microsoft Press 0735624224
Concurrent Programming in Java™: Design Principles and Pattern, 2nd Edition <i>Douglas Lea</i>	Prentice Hall 0201310090