
High Performance Responsive Design Building Faster Sites Across Devices 1st Edition By Barker Tom 2014 Paperback

The Making of a High-performance Building

What every web developer should know about networking and web performance

Carbon-Neutral Architectural Design

Sustainable School Architecture

High Performance Drupal

Practical Application Development with AppRun

Attributes for Health and Learning

Building Envelopes, Renewable Energies and Integrated Practice

Fast and Scalable Designs

Essential Building Science

High Performance Images

Build faster web apps using Node.js, Svelte.js, and WebAssembly

Quality Lighting for High Performance Buildings

High Performance Building Guidelines

Design and Construction of High-Performance Homes

Integrating Innovation in Architecture

Design and build high-performance real-time digital systems based on FPGAs and custom circuits

High Performance Web Sites

Guidelines for Smart Material Implementation in the Design of Climatically

Responsive Building Envelopes

Design for Elementary and Secondary Schools

Architecting High-Performance Embedded Systems

Sustainable Facades

Solar Buildings and Neighborhoods

Strategies and Approaches for Transformational Change

Design on the Edge

Design and Construction of High-performance Homes

Design Considerations for High Energy Performance

Essential Knowledge for Front-End Engineers

Emerging Design Practices
High Performance JavaScript
Responsive Design High Performance
Web Based Enterprise Energy and Building Automation Systems
Promise Versus Performance in Sustainable Design
High Performance Web Sites
Build Faster Web Application Interfaces
Smart Material Systems for High Performance Building Envelopes
Passive House Details
High Performance Browser Networking
Understanding Energy and Moisture in High Performance House Design

*High Performance
Responsive Design
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*The Making of a High-performance
Building "O'Reilly Media, Inc."*

Architecting High Performing, Scalable and Available Enterprise Web Applications provides in-depth insights into techniques for achieving desired scalability, availability and performance quality goals for enterprise web applications. The book provides an integrated 360-degree view of achieving

and maintaining these attributes through practical, proven patterns, novel models, best practices, performance strategies, and continuous improvement methodologies and case studies. The author shares his years of experience in application security, enterprise application testing, caching techniques, production operations and maintenance, and efficient project management techniques. Delivers holistic view of scalability, availability and security, caching, testing and project management Includes patterns and frameworks that are illustrated with end-to-end case studies Offers tips and troubleshooting methods for enterprise application testing, security, caching, production operations and project management Exploration of synergies

between techniques and methodologies to achieve end-to-end availability, scalability, performance and security quality attributes 360-degree viewpoint approach for achieving overall quality Practitioner viewpoint on proven patterns, techniques, methodologies, models and best practices. Bulleted summary and tabular representation of concepts for effective understanding Production operations and troubleshooting tips
John Wiley & Sons
Both professionals and students are increasingly committed to achieving high-performance metrics in the design, construction and operation of residential buildings. This book responds to this demand by offering a comprehensive guide which features: architectural

innovations in building skin technologies which make lighter more transparent buildings high performing energy-free architectural design principles and advances in building-integrated photovoltaics essential engineering principles, controls and approaches to simulation for achieving net zero the advantages of integrated design in residential construction and the challenges and opportunities it engenders detailed case studies of innovative homes which have incorporated low-energy design solutions, new materials, alternative building assemblies, digital fabrication, integrated engineering systems and operational controls. Divided into four parts, the book discusses the requisite AEC (Architecture, Engineering and

Construction) knowledge needed when building a high-performance home. It also communicates this information across four case studies, which provide the reader with a thorough overview of all aspects to be considered in the design and construction of sustainable homes. With contributions from experts in the field, the book provides a well-rounded and multi-faceted approach. This book is essential reading for students and professionals in design, architecture, engineering (civil, mechanical and electrical), construction and energy management.

What every web developer should know about networking and web performance
Apress

Both professionals and students are increasingly committed to achieving

high-performance metrics in the design, construction and operation of residential buildings. This book responds to this demand by offering a comprehensive guide which features: architectural innovations in building skin technologies which make lighter more transparent buildings high performing; energy-free architectural design principles and advances in building-integrated photovoltaics; essential engineering principles, controls and approaches to simulation for achieving net zero; the advantages of integrated design in residential construction and the challenges and opportunities it engenders; detailed case studies of innovative homes which have incorporated low-energy design solutions, new materials, alternative

building assemblies, digital fabrication, integrated engineering systems and operational controls. Divided into four parts, the book discusses the requisite AEC (Architecture, Engineering and Construction) knowledge needed when building a high-performance home. It also communicates this information across four case studies, which provide the reader with a thorough overview of all aspects to be considered in the design and construction of sustainable homes. With contributions from experts in the field, the book provides a well-rounded and multi-faceted approach. This book is essential reading for students and professionals in design, architecture, engineering (civil, mechanical and electrical), construction and energy management.

Carbon-Neutral Architectural Design

"O'Reilly Media, Inc."

Passive House Details introduces the concepts, principles, and design processes of building ultralow-energy buildings. The objective of this book is to provide design goals, research, analysis, systems, details, and inspiring images of some of the most energy-efficient, carbon-neutral, healthy, and satisfying buildings currently built in the region. Other topics included: heat transfer, moisture management, performance targets, and climatic zones. Illustrated with more than 375 color images, the book is a visual catalog of construction details, materials, and systems drawn from projects contributed from forty firms. Fourteen in-depth case studies demonstrate the most energy-efficient

systems for foundations, walls, floors, roofs, windows, doors, and more.

Sustainable School Architecture Packt Publishing Ltd

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

High Performance Drupal CarTech Inc

How prepared are you to build fast and efficient web applications? This eloquent book provides what every web developer should know about the network, from fundamental limitations that affect performance to major innovations for building even more powerful browser applications—including HTTP 2.0 and XHR improvements, Server-Sent Events (SSE), WebSocket, and WebRTC. Author Ilya Grigorik, a web performance engineer at Google, demonstrates performance optimization best practices for TCP, UDP, and TLS protocols, and explains unique wireless and mobile network optimization requirements. You'll then dive into performance characteristics of technologies such as HTTP 2.0, client-side network scripting with XHR, real-time streaming with SSE

and WebSocket, and P2P communication with WebRTC. Deliver superlative TCP, UDP, and TLS performance Speed up network performance over 3G/4G mobile networks Develop fast and energy-efficient mobile applications Address bottlenecks in HTTP 1.x and other browser protocols Plan for and deliver the best HTTP 2.0 performance Enable efficient real-time streaming in the browser Create efficient peer-to-peer videoconferencing and low-latency applications with real-time WebRTC transports

Practical Application Development

with AppRun National Academies Press
This book is ideal for developers who have experience in developing websites or possess minor knowledge of how responsive websites work. No experience

of high-level website development or performance tweaking is required.

Attributes for Health and Learning

Lulu.com

High-Performance Ignition Systems: Design, Build & Install is a completely updated guide to understanding automotive ignition systems, from old-school points and condensers to modern computer-controlled distributorless systems, and from bone-stock systems to highly modified.

Building Envelopes, Renewable Energies and Integrated Practice National Academies Press

Evidence has accumulated that shows that the quality of indoor environments can affect the health and productivity of adults and children. One consequence is that a movement has emerged to

promote the design of schools that have fewer adverse environmental effects. To examine the potential of such design for improving education, several private organizations asked the NRC to review and assess the health and productivity benefits of green schools. This report provides an analysis of the complexity of making such a determination; and an assessment of the potential human health and performance benefits of improvements in the building envelope, indoor air quality, lighting, and acoustical quality. The report also presents an assessment of the overall building condition and student achievement, and offers an analysis of and recommendations for planning and maintaining green schools including research considerations.

Fast and Scalable Designs CRC Press
In most forms of racing, cornering speed is the key to winning. On the street, precise and predictable handling is the key to high performance driving. However, the art and science of engineering a chassis can be difficult to comprehend, let alone apply. Chassis Engineering explains the complex principles of suspension geometry and chassis design in terms the novice can easily understand and apply to any project. Hundreds of photos and illustrations illustrate what it takes to design, build, and tune the ultimate chassis for maximum cornering power on and off the track.

Essential Building Science New Society Publishers

This new color edition is essential for the

enthusiast who wants to get the most performance out of this new engine design but is only familiar with the older Chevy small-blocks. Covered is everything you need to know about these engines, including the difficult engine removal and installation, simple engine bolt-ons, electronic controls for the Generation III engine, and detailed engine builds at four different power levels.

High Performance Images DIANE
Publishing

If you're like most developers, you rely heavily on JavaScript to build interactive and quick-responding web applications. The problem is that all of those lines of JavaScript code can slow down your apps. This book reveals techniques and strategies to help you eliminate

performance bottlenecks during development. You'll learn how to improve execution time, downloading, interaction with the DOM, page life cycle, and more. Yahoo! frontend engineer Nicholas C. Zakas and five other JavaScript experts—Ross Harmes, Julien Lecomte, Steven Levithan, Stoyan Stefanov, and Matt Sweeney—demonstrate optimal ways to load code onto a page, and offer programming tips to help your JavaScript run as efficiently and quickly as possible. You'll learn the best practices to build and deploy your files to a production environment, and tools that can help you find problems once your site goes live. Identify problem code and use faster alternatives to accomplish the same task. Improve scripts by learning how

JavaScript stores and accesses data
 Implement JavaScript code so that it
 doesn't slow down interaction with the
 DOM Use optimization techniques to
 improve runtime performance Learn
 ways to ensure the UI is responsive at all
 times Achieve faster client-server
 communication Use a build system to
 minify files, and HTTP compression to
 deliver them to the browser

**Build faster web apps using Node.js,
 Svelte.js, and WebAssembly** "O'Reilly
 Media, Inc."

The book explores advanced building-
 facade daylighting design practices
 based on diverse energy and human-
 factor performance metrics. It also
 defines effective daylighting by
 rethinking the simplified approach to
 glazing and facade systems to

incorporate the local climate and the
 needs of building occupants as critical
 drivers of building performance, design
 solutions and technological innovation. It
 discusses state-of-the-art approaches in
 the context of simulation-based design
 workflows, innovative technologies and
 real project case studies, all targeting
 low and net-zero energy solutions that
 enhance occupant comfort. Readers
 benefit from a comprehensive approach
 that improves the feedback loop
 between design intent and performance
 in use. The book is intended for
 architects, lighting designers, facade
 engineers, manufacturers and building
 owners/operators, as well as advanced
 students.

*Quality Lighting for High Performance
 Buildings* John Wiley & Sons

The design, construction, operation, and retrofit of buildings is evolving in response to ever-increasing knowledge about the impact of indoor environments on people and the impact of buildings on the environment. Research has shown that the quality of indoor environments can affect the health, safety, and productivity of the people who occupy them. Buildings are also resource intensive, accounting for 40 percent of primary energy use in the United States, 12 percent of water consumption, and 60 percent of all non-industrial waste. The processes for producing electricity at power plants and delivering it for use in buildings account for 40 percent of U.S. greenhouse gas emissions. The U.S. federal government manages approximately 429,000 buildings of

many types with a total square footage of 3.34 billion worldwide, of which about 80 percent is owned space. More than 30 individual departments and agencies are responsible for managing these buildings. The characteristics of each agency's portfolio of facilities are determined by its mission and its programs. In 2010, GSA's Office of Federal High-Performance Green Buildings asked the National Academies to appoint an ad hoc committee of experts to conduct a public workshop and prepare a report that identified strategies and approaches for achieving a range of objectives associated with high-performance green federal buildings. Achieving High-Performance Federal Facilities identifies examples of important initiatives taking place and

available resources. The report explores how these examples could be used to help make sustainability the preferred choice at all levels of decision making. Achieving High-Performance Federal Facilities can serve as a valuable guide federal agencies with differing missions, types of facilities, and operating procedures.

High Performance Building Guidelines
"O'Reilly Media, Inc."

This book provides an overview of the basic concepts of quality, indoor lighting, and explains concepts like visual comfort, visual interest, and integrated design as they relate to the practice of lighting design. Energy-efficient lighting technologies, including LED lighting and digital control systems, and design strategies that increase visual comfort

and productivity are discussed in plain language, and examined in a straightforward way to give the reader, whether an architect, interior designer, engineer, building trades professional, or student a broad understanding of the art and science of energy-efficient quality lighting.

Design and Construction of High-Performance Homes John Wiley & Sons
Is Responsive Web Design (RWD) slowing your site down? It doesn't have to. With this concise book, you'll learn practical techniques for improving performance with RWD, including a default set of guidelines you can use as an easy starting point. Web performance researcher and evangelist Guy Podjarny walks you through several existing solutions for dealing with RWD

performance problems, and offers advice for choosing optimizations that will be most useful for your needs. RWD performance problems stem from excessive downloads of resources, including images, JavaScript and CSS, and HTML—downloads designed to let your web application adapt to different screen sizes. Podjarny presents a series of increasingly larger-scope solutions to each issue, including client-side techniques and RESS (Responsive + Server Side Components). Address performance issues by starting with Podjarny’s default guidelines Use a JavaScript image loader and an image transcoding service to create Responsive Images Reduce JavaScript and CSS downloads with asynchronous scripts, conditional loading, and multi-viewpoint

CSS Prioritize resources to avoid excess content in RWD and defer the load of any content that’s not critical Explore server-side Adaptive Delivery and RESS solutions as an alternative to “pure” RWD Guy Podjarny, or Guypo for short, is the Chief Technology Officer (CTO) of Akamai’s Web Experience business unit. Integrating Innovation in Architecture High Performance Responsive Design Building Faster Sites Across Devices The energy used to operate buildings is one of the most significant sources of greenhouse gas emissions. While it is possible to reduce emissions through climate-responsive design, many architects are not trained to do this. Filling an urgent need for a design reference in this emerging field, this

book describes how to reduce building-related greenhouse gas emissions through appropriate design techniques. It presents strategies to achieve CO2 reductions, with an emphasis on control of energy flows through the building envelope and passive heating and cooling strategies. This new, revised edition is updated throughout, and includes a new chapter on building simulations.

Design and build high-performance real-time digital systems based on FPGAs and custom circuits Packt Publishing Ltd

This authoritative new resource provides a comprehensive review of the current approaches to the design and construction of sustainable buildings. This hand-on guide features global case

studies with practical examples of both successful and unsuccessful designs. The whole system approach to integrated design is clearly presented. This book includes insight into designing for the future, including design quality and future proofing, intelligent buildings, and whole life value. Nature inspired sustainable designs that can be mimicked in the construction industry are presented. Technical challenges such as energy efficiency, design, and computer modeling are explored along with various construction phase opportunities.

High Performance Web Sites Simon and Schuster

An example-driven guide covering modern web app development techniques and emerging technologies

such as WebAssembly, Service Workers, and Svelte.js to build faster, secure, and scalable apps

Key Features Discover effective techniques for accessing DOM, minimizing painting, and using a V8 engine to optimize JavaScript

Understand what makes the web tick and create apps that look and feel like native desktop applications

Explore modern JavaScript frameworks like Svelte.js for building next-gen web apps

Book Description High-performance web development is all about cutting through the complexities in different layers of a web app and building services and APIs that improve the speed and performance of your apps on the browser. With emerging web technologies, building scalable websites and sustainable web apps is smoother than ever. This book

starts by taking you through the web frontend, popular web development practices, and the latest version of ES and JavaScript. You'll work with Node.js and learn how to build web apps without a framework. The book consists of three hands-on examples that help you understand JavaScript applications at both the server-side and the client-side using Node.js and Svelte.js. Each chapter covers modern techniques such as DOM manipulation and V8 engine optimization to strengthen your understanding of the web. Finally, you'll delve into advanced topics such as CI/CD and how you can harness their capabilities to speed up your web development dramatically. By the end of this web development book, you'll have understood how the JavaScript landscape has evolved, not

just for the frontend but also for the backend, and be ready to use new tools and techniques to solve common web problems. What you will learn Explore Vanilla JavaScript for optimizing the DOM, classes, and modules, and querying with jQuery Understand immutable and mutable code and develop faster web apps Delve into Svelte.js and use it to build a complete real-time Todo app Build apps to work offline by caching calls using service workers Write C++ native code and call the WebAssembly module with JavaScript to run it on a browser Implement CircleCI for continuous integration in deploying your web apps Who this book is for This JavaScript book is for web developers, C/C++ programmers, and anyone who wants to

build robust web applications using advanced web technologies. This book assumes a good grasp of Vanilla JavaScript and an understanding of web development tools, such as Chrome Developer tools or Mozilla's developer tools.

Guidelines for Smart Material Implementation in the Design of Climatically Responsive Building Envelopes Routledge

The capability and use of IT and web based energy information and control systems has expanded from single facilities to multiple facilities and organizations with buildings located throughout the world. This book answers the question of how to take the mass of available data and extract from it simple and useful information which can

determine what actions to take to improve efficiency and productivity of commercial, institutional and industrial facilities. The book also provides insight into the areas of advanced applications

for web based EIS and ECS systems, and the integration of IT/web based information and control systems with existing BAS systems.

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