

Designing And Tuning High Performance Fuel Injection Systems

Founded on the author's many years of experience in building, tuning and modifying high-performance engines, it sets out in accessible language the principles involved in forced induction, supported by tables and numerous illustrations. From basic theory through to building a rugged engine, all the important aspects of supercharging and turbocharging are explained and analyzed.

Embedded Computing for High Performance: Design Exploration and Customization Using High-level Compilation and Synthesis Tools provides a set of real-life example implementations that migrate traditional desktop systems to embedded systems. Working with popular hardware, including Xilinx and ARM, the book offers a comprehensive description of techniques for mapping computations expressed in programming languages such as C or MATLAB to high-performance embedded architectures consisting of multiple CPUs, GPUs, and reconfigurable hardware (FPGAs). The authors demonstrate a domain-specific language (LARA) that facilitates retargeting to multiple computing systems using the same source code. In this way, users can decouple original application code from transformed code and enhance productivity and program portability. After reading this book, engineers will understand the processes, methodologies, and best practices needed for the development of applications for high-performance embedded computing systems. Focuses on maximizing performance while managing energy consumption in embedded systems Explains how to retarget code for heterogeneous systems with GPUs and FPGAs Demonstrates a domain-specific language that facilitates migrating and retargeting existing applications to modern systems Includes downloadable slides, tools, and tutorials

The photos in this edition are black and white. Brake systems are one of the most important yet least understood vehicle systems. Brake systems can be intimidating, and they aren't the first thing the average horsepower junkie chooses to upgrade. But there's no reason to wait until you have a problem to learn how your brakes work. High-Performance Brake Systems: Design, Selection, and Installation gives you the knowledge to upgrade your brakes the right way the first time. Author James Walker, Jr. doesn't just tell you what to do--he uses over 315 photos and plain English to help you understand how and why your brake system works, what each of the components does, and how to intelligently upgrade your brakes for better performance. There are chapters showing you how to choose and install the most effective rotors, calipers, pads, and tires for your sports car, muscle car, race car, and street rod. You'll even find special sidebars detailing how each upgrade will affect your ABS system. Whether you are a commuter, a casual enthusiast, a weekend warrior, or a professional racer, this book is perfect for you.

Design and configure SQL Server instances and databases in support of high-throughput applications that are mission-critical and provide consistent response times in the face of variations in user numbers and query volumes. Learn to configure SQL Server and design your databases to support a given instance and workload. You'll learn advanced configuration options, in-memory technologies, storage and disk configuration, and more, all toward enabling your desired application performance and throughput. Configuration doesn't stop with implementation. Workloads change over time, and other impediments can arise to thwart desired performance. High Performance SQL Server covers monitoring and troubleshooting to aid in detecting and fixing production performance problems and minimizing application outages. You'll learn a variety of tools, ranging from the traditional wait analysis methodology to the new query store, and you'll learn how improving performance is really an iterative process. High Performance SQL Server is based on SQL Server 2016, although most of its content can be applied to prior versions of the product. This book is an excellent complement to performance tuning books focusing on SQL queries, and provides the other half of what you need to know by focusing on configuring the instances on which mission-critical queries are executed. Covers SQL Server instance-configuration for optimal performance Helps in implementing SQL Server in-memory technologies Provides guidance toward monitoring and ongoing diagnostics What You Will Learn Understand SQL Server's database engine and how it processes queries Configure instances in support of high-throughput applications Provide consistent response times to varying user numbers and query volumes Design databases for high-throughput applications with focus on performance Record performance baselines and monitor SQL Server instances against them Troubleshoot and fix performance problems Who This Book Is For SQL Server database administrators, developers, and data architects. The book is also of use to system administrators who are managing and are responsible for the physical servers on which SQL Server instances are run.

A guide to modifying and tuning modern electronic fuel injection (EFI) and electronic control unit (ECU) systems. Includes sections on standalones, an overview of EFI systems components and basic operation, and much more.

Since they entered our world around the middle of the 20th century, the application of mechatronics has enhanced our lives with functionality based on the integration of electronics, control systems and electric drives. This book deals with the special class of mechatronics that has enabled the exceptional levels of accuracy and speed of high-tech equipment applied in the semiconductor industry, realising the continuous shrink in detailing of micro-electronics and MEMS. As well as the more frequently presented standard subjects of dynamics, motion control, electronics and electromechanics, this book includes an overview of systems engineering, optics and precision measurement systems, in an attempt to establish a connection between these fields under one umbrella. Robert Munnig Schmidt is professor in Mechatronic System Design at Delft University of Technology with industrial experience at Philips and ASML in research and development of consumer and high-tech systems. He is also director of RMS Acoustics & Mechatronics, doing research and development on active controlled low frequency sound systems. Georg Schitter is professor at the Automation and Control Institute (ACIN) at Vienna University of Technology with a standing track record in research on the control and mechatronic design of extremely fast precision motion systems such as video rate AFM systems. Adrian Rankers is

managing partner of Mechatronics Academy, developing and delivering high level courses to the industrial community, based on industrial experience at Philips in the research and development of consumer and high-tech systems. Jan van Eijk is emeritus professor in Advanced Mechatronics at Delft University of Technology. He is also director of MICE BV and partner at Mechatronics Academy, acting as industrial R&D advisor and teacher with experience at Philips in the research and development of consumer and high-tech systems.

Due to the increasing complexity in application workloads and query engines, database administrators are turning to automated tuning tools that systematically explore the space of physical design alternatives. A critical element of such tuning is physical database design since the choice of physical structures has a significant impact on the performance of the database system. *Automated Physical Database Design and Tuning* presents a detailed overview of the fundamental ideas and algorithms for automatically recommending changes to the physical design of a database system. The first part of the book introduces the necessary technical background. The author explains SQL, the space of execution plans for answering SQL queries, query optimization, how the choice of access paths (e.g., indexes) is crucial to performance, and the complexity of the physical design problem. The second part extensively discusses automated physical design techniques, covering fundamental research ideas in the last 15 years that have resulted in a new generation of tuning tools. The text focuses on the search space of alternatives, the necessity of a cost model to compare such alternatives, different mechanisms to traverse and enumerate the search space, and practical aspects in real-world tuning tools. In the third part, the author explores new advances in automated physical design. He applies previous approaches to other physical structures, such as materialized views, partitioning, and multidimensional clustering. He also analyzes workload models for new types of applications, generalizes the optimizing function of current physical design tools to cope with other application scenarios, and examines open-ended challenges in physical database design. This book offers valuable insights on well-established principles and cutting-edge research results in automated physical design. It helps readers gain a deeper understanding of how automated tuning tools work in database installations as well as the challenges and opportunities involved in designing next-generation tuning tools.

Spring 5.0 brings major advancements in the rich APIs provided by the Spring framework and thus creates a need for developers to master its tools and techniques to achieve high-performing applications. This book will help you improve the speed of your code and optimize the performance of your apps.

Offers instructions for tuning or modifying all car parts for improved handling, safety, and performance

This book presents the state of the art in designing high-performance algorithms that combine simulation and optimization in order to solve complex optimization problems in science and industry, problems that involve time-consuming simulations and expensive multi-objective function evaluations. As traditional optimization approaches are not applicable per se, combinations of computational intelligence, machine learning, and high-performance computing methods are popular solutions. But finding a suitable method is a challenging task, because numerous approaches have been proposed in this highly dynamic field of research. That's where this book comes in: It covers both theory and practice, drawing on the real-world insights gained by the contributing authors, all of whom are leading researchers. Given its scope, it offers a comprehensive reference guide for researchers, practitioners, and advanced-level students interested in using computational intelligence and machine learning to solve expensive optimization problems.

Looks at the combustion basics of fuel injection engines and offers information on such topics as VE equation, airflow estimation, setups and calibration, creating timing maps, and auxiliary output controls.

Automotive technology.

Technological Advances and Problems of High Performance Communications An ecosystem of solutions along a stack of technology layers Cohesively collecting state-of-the-art contributions from leading researchers in industry, national laboratories, and academia, *Attaining High Performance Communications: A Vertical Approach* discusses various issues pertaining to high performance communications in a particular layer of a vertical stack. It explores efficient interconnection hardware, the architectural aspects of network adapters and their integration with processor cores, the design of scalable and robust high performance end-to-end communications services and protocols, and system services and tools for new multi-core environments. No single solution applied at one particular layer can help applications solve all performance-related issues with communication services. Instead, this book shows that a coordinated effort is needed among the layers. It covers many different types of technologies and layers across the stack, from the architectural features of the hardware, through the protocols and their implementation in operating system kernels, to the manner in which application services and middleware are using underlying platforms. The book also describes key developments in high-end platforms, high performance interconnection fabrics and communication libraries, and multi- and many-core systems. This volume addresses the challenges involved in emerging types of communications applications, platforms, and services. Examining each layer in the vertical stack, it illustrates how to eliminate bottlenecks and provide optimization opportunities.

Helps readers eliminate performance problems, covering topics including bottlenecks, profiling tools, strings, algorithms, distributed systems, and servlets.

Improvements in process control, such as defined-accuracy instrumentation structures and computationally intelligent process modeling, enable advanced capabilities such as molecular manufacturing. *High Performance Instrumentation and Automation* demonstrates how systematizing the design of instrumentation and automation leads to higher performance through more homogeneous systems, which are frequently assisted by rule-based, fuzzy logic, and neural network process descriptions.

Incorporate Advanced Performance Enhancements into Your Automation Enterprise The book illustrates generic common core process-to-control concurrent engineering linkages applied to a variety of laboratory and industry automation systems. It outlines: Product properties translated into realizable process variables Axiomatic decoupling of subprocess variables for improved robustness Production planner model-driven goal state execution In situ sensor and control structures for attenuating process disorder Apparatus tolerance design for minimizing process variabilities Production planner remodeling based on product features measurement for quality advancement Coverage also includes multisensor data fusion, high-performance computer I/O design guided by comprehensive error modeling, multiple sensor algorithmic error propagation, robotic axes volumetric accuracy,

quantitative video digitization and reconstruction evaluation, and in situ process measurement methods. High Performance Instrumentation and Automation reflects the experience of engineer and author Patrick Garrett, including his role as co-principal investigator for an Air Force intelligent manufacturing initiative. You can download Analysis Suite.xls,, computer-aided design instrumentation software, available in the book's description on the CRC Press website.

This IBM® Redbooks® publication provides performance tuning tips and best practices for IBM Business Process Manager (IBM BPM) V8.5.5 (all editions) and IBM Business Monitor V8.5.5. These products represent an integrated development and runtime environment based on a key set of service-oriented architecture (SOA) and business process management (BPM) technologies. Such technologies include Service Component Architecture (SCA), Service Data Object (SDO), Business Process Execution Language (BPEL) for web services, and Business Processing Modeling Notation (BPMN). Both IBM Business Process Manager and Business Monitor build on the core capabilities of the IBM WebSphere® Application Server infrastructure. As a result, Business Process Manager solutions benefit from tuning, configuration, and best practices information for WebSphere Application Server and the corresponding platform Java virtual machines (JVMs). This book targets a wide variety of groups, both within IBM (development, services, technical sales, and others) and customers. For customers who are either considering or are in the early stages of implementing a solution incorporating Business Process Manager and Business Monitor, this document proves a useful reference. The book is useful both in terms of best practices during application development and deployment and as a reference for setup, tuning, and configuration information. This book talks about many issues that can influence performance of each product and can serve as a guide for making rational first choices in terms of configuration and performance settings. Similarly, customers who already implemented a solution with these products can use the information presented here to gain insight into how their overall integrated solution performance can be improved.

Multi-time author and well-regarded performance engine builder/designer John Baechtel has assembled the relevant mathematics and packaged it all together in a book designed for automotive enthusiasts. This book walks readers through the complete engine, showcasing the methodology required to define each specific parameter, and how to translate the engineering math to hard measurements reflected in various engine parts. Designing the engine to work as a system of related components is no small task, but the ease with which Baechtel escorts the reader through the process makes this book perfect for both the budding engine enthusiast and the professional builder.

Takes engine-tuning techniques to the next level. It is a must-have for tuners and calibrators and a valuable resource for anyone who wants to make horsepower with a fuel-injected, electronically controlled engine.

Transform an average car or truck into a turbocharged high performance street machine. A handbook on theory and application of turbocharging for street and high-performance use, this book covers high performance cars and trucks. This comprehensive guide features sections on theory, indepth coverage of turbocharging components, fabricating systems, engine building and testing, aftermarket options and project vehicles.

Chassis Engineering for HP Cars Manual Chassis Design Covers Center Of Gravity And Roll Center Enhancing Road Handling Ability Step-By-Step Guide Tire Technology And Front and Rear Suspensions Brakes; Shocks And Springs.

Your Python code may run correctly, but you need it to run faster. Updated for Python 3, this expanded edition shows you how to locate performance bottlenecks and significantly speed up your code in high-data-volume programs. By exploring the fundamental theory behind design choices, High Performance Python helps you gain a deeper understanding of Python's implementation. How do you take advantage of multicore architectures or clusters? Or build a system that scales up and down without losing reliability? Experienced Python programmers will learn concrete solutions to many issues, along with war stories from companies that use high-performance Python for social media analytics, productionized machine learning, and more. Get a better grasp of NumPy, Cython, and profilers Learn how Python abstracts the underlying computer architecture Use profiling to find bottlenecks in CPU time and memory usage Write efficient programs by choosing appropriate data structures Speed up matrix and vector computations Use tools to compile Python down to machine code Manage multiple I/O and computational operations concurrently Convert multiprocessing code to run on local or remote clusters Deploy code faster using tools like Docker

As Web-based systems and e-commerce carry businesses into the 21st century, databases are becoming workhorses that shoulder each and every online transaction. For organizations to have effective 24/7 Web operations, they need powerhouse databases that deliver at peak performance-all the time. High Performance Web Databases: Design, Development, and With contributions from some of the most notable experts in the field, Performance Tuning of Scientific Applications presents current research in performance analysis. The book focuses on the following areas. Performance monitoring: Describes the state of the art in hardware and software tools that are commonly used for monitoring and measuring performance and managing large quantities of data Performance analysis: Discusses modern approaches to computer performance benchmarking and presents results that offer valuable insight into these studies Performance modeling: Explains how researchers deduce accurate performance models from raw performance data or from other high-level characteristics of a scientific computation Automatic performance tuning: Explores ongoing research into automatic and semi-automatic techniques for optimizing computer programs to achieve superior performance on any computer platform Application tuning: Provides examples that show how the appropriate analysis of performance and some deft changes have resulted in extremely high performance Performance analysis has grown into a full-fledged, sophisticated field of empirical science. Describing useful research in modern performance science and engineering, this book helps real-world users of parallel computer systems to better understand both the performance vagaries arising in scientific applications and the practical means for improving performance. Read about the book on HPCwire and insideHPC

A practical guide to modifying and tuning modern electronic fuel injection (EFI) systems, including engine control units (ECUs). The book starts out with plenty of foundational topics on wiring, fuel systems, sensors, different types of ignition systems, and other topics to help ensure the reader understands how EFI Systems work. Next the book builds on that foundation, helping the reader to understand the different options available: Re-tuning factory ECUs, add on piggyback computers, or all out standalone engine management systems. Next Matt and Jerry help the reader to understand how to configure a Standalone EMS, get the engine started, prep for tuning, and tune the engine for maximum power and drivability. Also covered is advice on tuning other functions-- acceleration enrichments, closed loop fuel correction, and more. Finally, the book ends with a number of case studies highlighting different vehicles and the EMS solutions that were chosen for each, helping to bring it all together with a heavy emphasis on how you can practically approach your projects and make them successful!

The photos in this edition are black and white. Dyno Testing and Tuning is the first book to explain the proper testing procedures that everyone should use to get accurate and useful results from either an engine or chassis dyno. Authors Harold Bettes and Bill Hancock, recognized experts in the performance and racing industry, apply their wealth of knowledge and experience to deliver the definitive work on dynamometers and dyno testing. This book will be useful to anyone who wants to squeeze more power out of their car or engine, but should also be required reading for performance shop owners and dyno operators. The book explains how a dyno works, describes what kinds of data a dyno test can produce, and then shows you how to plan a test session that will give you the results you're looking for. You'll learn what to look for in a dyno facility, how to conduct a dyno test and ensure the accuracy and repeatability of your test, and how to troubleshoot any problems that arise. Sample forms and checklists round out what is sure to be an indispensable book for anyone who wants to make the most of their dyno testing.

Proven methodologies and concurrency techniques that will help you write faster and better code with Go programming Key Features Explore Go's profiling tools to write faster programs by identifying and fixing bottlenecks Address Go-specific performance issues such as memory allocation and garbage collection Delve into the subtleties of concurrency and discover how to successfully implement it in everyday applications Book Description Go is an easy-to-write language that is popular among developers thanks to its features such as concurrency, portability, and ability to reduce complexity. This Golang book will teach you how to construct idiomatic Go code that is reusable and highly performant. Starting with an introduction to performance concepts, you'll understand the ideology behind Go's performance. You'll then learn how to effectively implement Go data structures and algorithms along with exploring data manipulation and organization to write programs for scalable software. This book covers channels and goroutines for parallelism and concurrency to write high-performance code for distributed systems. As you advance, you'll learn how to manage memory effectively. You'll explore the compute unified device architecture (CUDA) application programming interface (API), use containers to build Go code, and work with the Go build cache for quicker compilation. You'll also get to grips with profiling and tracing Go code for detecting bottlenecks in your system. Finally, you'll evaluate clusters and job queues for performance optimization and monitor the application for performance regression. By the end of this Go programming book, you'll be able to improve existing code and fulfill customer requirements by writing efficient programs. What you will learn Organize and manipulate data effectively with clusters and job queues Explore commonly applied Go data structures and algorithms Write anonymous functions in Go to build reusable apps Profile and trace Go apps to reduce bottlenecks and improve efficiency Deploy, monitor, and iterate Go programs with a focus on performance Dive into memory management and CPU and GPU parallelism in Go Who this book is for This Golang book is a must for developers and professionals who have an intermediate-to-advanced understanding of Go programming, and are interested in improving their speed of code execution.

If you want to add one of the slick Holley, ACCEL, or Edelbrock fuel-injection systems to your small-block V-8, or if you want get rid of the black cloud behind your Eclipse after your injector and 20G swap -- you need this book. With information in this book, you'll never have to wonder if your tune is just right -- you'll know it. If it isn't -- you can change it. After a description of what programmable EFI offers its users, author Ben Strader (founder and senior instructor of EFI University) gives a detailed account of what you want to accomplish with your EFI system, then shows you how to get there. You'll learn to: define air and fuel requirements based on horsepower and RPM; set up your base fuel and ignition maps to get things up and running fast; tweak your fuel and timing maps for light- and heavy-load situations; and adjust timing for cold-starting or high-boost conditions In the second section of Building and Tuning High-Performance Electronic Fuel Injection, Strader gives a detailed description of the systems from 11 respected EFI manufacturers. He helps you weigh the info on cost, features, tunability, and ease of installation between the available systems, so you can find the high-performance aftermarket EFI system that's right for you.

The authoritative, hands-on guide to advanced MySQL programming and administration techniques for high performance is here. MySQL Database Design and Tuning is the only guide with coverage of both the basics and advanced topics, including reliability, performance, optimization and tuning for MySQL. This clear, concise and unique source for the most reliable MySQL performance information will show you how to: Deploy the right MySQL product for your performance needs. Set up a performance management and monitoring environment using tools from MySQL. Implement the right indexing strategy Apply good performance strategy when developing software to work with the MySQL database. Configure dozens of variables to correctly tune the MySQL engine. If you deal with the intricacies and challenges of advanced MySQL functionality on a daily basis, you will be able to build on your knowledge with author Robert Schneider's real-world experiences in MySQL Database Design and Tuning.

Drawing on a wealth of knowledge and experience and a background of more than 1,000 magazine articles on the subject, engine control expert Jeff Hartman explains everything from the basics of engine management to the building of complicated project cars. Hartman has substantially updated the material from his 1993 MBI book Fuel Injection (0-879387-43-2) to address the incredible developments in automotive fuel injection technology from the past decade, including the multitude of import cars that are the subject of so much hot rodding today. Hartman's text is extremely detailed and logically arranged to help readers better understand this complex topic.

Covers everything you need to know about selecting the most desirable gear ratio, rebuilding differentials and other driveline components, and most importantly, matching the correct driveline components to engine power output.

Use this fast and complete guide to optimize the performance of MongoDB databases and the applications that depend on them. You will be able to turbo-charge the performance of your MongoDB applications to provide a better experience for your users, reduce your running costs, and avoid application growing pains. MongoDB is the world's most popular document database and the foundation for thousands of mission-critical applications. This book helps you get the best possible performance from MongoDB. MongoDB Performance Tuning takes a methodical and comprehensive approach to performance tuning that begins with application and schema design and goes on to cover optimization of code at all levels of an application. The book also explains how to configure MongoDB hardware and cluster configuration for optimal performance. The systematic approach in the book helps you treat the true causes of performance issues and get the best return on your tuning investment. Even when you're under pressure and don't know where to begin, simply follow the method in this book to set things right and get your MongoDB performance back on track. What You Will Learn Apply a methodical approach to MongoDB performance tuning Understand how to design an efficient MongoDB application Optimize MongoDB document design and indexing strategies Tune MongoDB queries, aggregation pipelines, and transactions Optimize MongoDB server resources: CPU, memory, disk Configure MongoDB Replica sets and Sharded clusters for optimal performance Who This Book Is For Developers and administrators of high-performance

MongoDB applications who want to be sure they are getting the best possible performance from their MongoDB system. For developers who wish to create applications that are fast, scalable, and cost-effective. For administrators who want to optimize their MongoDB server and hardware configuration.

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.

Apache Spark is amazing when everything clicks. But if you haven't seen the performance improvements you expected, or still don't feel confident enough to use Spark in production, this practical book is for you. Authors Holden Karau and Rachel Warren demonstrate performance optimizations to help your Spark queries run faster and handle larger data sizes, while using fewer resources. Ideal for software engineers, data engineers, developers, and system administrators working with large-scale data applications, this book describes techniques that can reduce data infrastructure costs and developer hours. Not only will you gain a more comprehensive understanding of Spark, you'll also learn how to make it sing. With this book, you'll explore: How Spark SQL's new interfaces improve performance over SQL's RDD data structure The choice between data joins in Core Spark and Spark SQL Techniques for getting the most out of standard RDD transformations How to work around performance issues in Spark's key/value pair paradigm Writing high-performance Spark code without Scala or the JVM How to test for functionality and performance when applying suggested improvements Using Spark MLlib and Spark ML machine learning libraries Spark's Streaming components and external community packages

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

Designing and Tuning High-Performance Fuel Injection Systems CarTech Inc

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.

"Newcomers will appreciate the clear explanations of the origins and development of secure e-commerce. More experienced developers can move straight to the detailed technical material. Anyone who is involved in e-commerce design, management, or operation will benefit from Secure Electronic Commerce."--BOOK JACKET.

Now more than ever, Subaru fanatics have a wealth of factory and aftermarket performance upgrades at their disposal. In High-Performance Subaru Builder's Guide, author Jeff Zurschmeide explains in detail the similarities and differences between the Subaru models, and describes how to modify each for performance on the street and at the track. He uses over 300 color photos to show you how to modify your Impreza, Legacy, WRX, or STI for improved acceleration, handling, braking, and style. The book provides detailed chapters explaining how to modify the intake, exhaust, turbocharger, and computer systems for more horsepower and torque--plus info on upgrading your drivetrain to handle all that power. If taking corners is your thing, you'll find chapters on the suspension, steering, chassis, brakes, and wheels and tires. A special chapter even shows you how to get started in your favorite type of racing, including examples of successful racers and their cars.

Rovella Starr chronicles the life of Rovella Jackson. The main character marries into a loveless marriage at the young age of fourteen-years old. From the very beginning this union is deceptive and Regina has no intentions of preserving her sacred marriage vows. Soon, this loveless union begins to crumble; but deception remains the main ingredient in Rovella's life.

Want your web site to display more quickly? This book presents 14 specific rules that will cut 25% to 50% off response time when users request a page. Author Steve Souders, in his job as Chief Performance Yahoo!, collected these best practices while optimizing some of the most-visited pages on the Web. Even sites that had already been highly optimized, such as Yahoo! Search and the Yahoo! Front Page, were able to benefit from these surprisingly simple performance guidelines. The rules in High Performance Web Sites explain how you can optimize the performance of the Ajax, CSS, JavaScript, Flash, and images that you've already built into your site -- adjustments that are critical for any rich web application. Other sources of information pay a lot of attention to tuning web servers, databases, and hardware, but the bulk of display time is taken up on the browser side and by the communication between server and browser. High Performance Web Sites covers every aspect of that process. Each performance rule is supported by specific examples, and code snippets are available on the book's companion web site. The rules include how to: Make Fewer HTTP Requests Use a Content Delivery Network Add an Expires Header Gzip Components Put Stylesheets at the Top Put Scripts at the Bottom Avoid CSS Expressions Make JavaScript and CSS External Reduce DNS Lookups Minify JavaScript Avoid Redirects Remove Duplicates Scripts Configure ETags Make Ajax Cacheable If you're building pages for high traffic destinations and want to optimize the experience of users visiting your site, this book is indispensable. "If everyone would implement just 20% of Steve's guidelines, the Web would be a dramatically better place. Between this book and Steve's YSlow extension, there's really no excuse for having a sluggish web site anymore." -Joe Hewitt, Developer of Firebug debugger and Mozilla's DOM Inspector "Steve Souders has done a fantastic job of distilling a massive, semi-arcane art down to a set of concise, actionable, pragmatic engineering steps that will change the world of web performance." -Eric Lawrence, Developer of the Fiddler Web Debugger, Microsoft Corporation

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