

## *2004 Ford Explorer Differential Diagram*

Modern Control Systems, 12e, is ideal for an introductory undergraduate course in control systems for engineering students. Written to be equally useful for all engineering disciplines, this text is organized around the concept of control systems theory as it has been developed in the frequency and time domains. It provides coverage of classical control, employing root locus design, frequency and response design using Bode and Nyquist plots. It also covers modern control methods based on state variable models including pole placement design techniques with full-state feedback controllers and full-state observers. Many examples throughout give students ample opportunity to apply the theory to the design and analysis of control systems. Incorporates computer-aided design and analysis using MATLAB and LabVIEW MathScript.

Insightful modelling of dynamic systems for better business strategy The business environment is constantly changing and organisations need the ability to rehearse alternative futures. By mimicking the interlocking operations of firms and industries, modelling serves as a 'dry run' for testing ideas, anticipating consequences, avoiding strategic pitfalls and improving future performance. Strategic

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Modelling and Business Dynamics is an essential guide to credible models; helping you to understand modelling as a creative process for distilling and communicating those factors that drive business success and sustainability. Written by an internationally regarded authority, the book covers all stages of model building, from conceptual to analytical. The book demonstrates a range of in-depth practical examples that vividly illustrate important or puzzling dynamics in firm operations, strategy, public policy, and everyday life. This updated new edition also offers a rich Learners' website with models, articles and videos, as well as a separate Instructors' website resource, with lecture slides and other course materials (see Related Websites/Extra section below). Together the book and websites deliver a powerful package of blended learning materials that:

- Introduce the system dynamics approach of modelling strategic problems in business and society
- Include industry examples and public sector applications with interactive simulators and contemporary visual modelling software
- Provide the latest state-of-the-art thinking, concepts and techniques for systems modelling

The comprehensive Learners' website features models, microworlds, journal articles and videos. Easy-to-use simulators enable readers to experience dynamic complexity in business and society. Like would-be CEOs, readers can re-design operations and then re-

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simulate in the quest for well-coordinated strategy and better performance. The simulators include a baffling hotel shower, a start-up low-cost airline, an international radio broadcaster, a diversifying tyre maker, commercial fisheries and the global oil industry. "Much more than an introduction, John Morecroft's *Strategic Modelling and Business Dynamics* uses interactive 'mini-simulators and microworlds' to create an engaging and effective learning environment in which readers, whatever their background, can develop their intuition about complex dynamic systems." John Sterman, Jay W. Forrester Professor of Management, MIT Sloan School of Management "Illustrated by examples from everyday life, business and policy, John Morecroft expertly demonstrates how systems thinking aided by system dynamics can improve our understanding of the world around us." Stewart Robinson, Associate Dean Research, President of the Operational Research Society, Professor of Management Science, School of Business and Economics, Loughborough University

Rita, Dan, Max and Ted are on the move in Trucktown! Kids will have hands-on fun with a movable part on each spread! Swing Wrecker Rosie's wrecking ball, spin Monster Truck Max's wheel, dump gravel from Dump Truck Dan's bed, and move Tow Truck Ted's hook up and down as he saves a good friend!

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Automotive News

Scientific and Technical Aerospace Reports

Every Model, Year by Year

Car and Driver

Issues and trends in education for sustainable development

A feedback systems approach

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Using a developmental approach to the process of criticism, *Making Sense of Messages* serves as an introduction to rhetorical criticism for communication majors. The text employs models of criticism to offer pointed and reflective commentary on the thinking process used to apply theory to a message. This developmental/apprenticeship approach helps students understand the thinking process behind critical analysis and aids in critical writing.

Starts with an overview of today's FPGA technology, devices, and tools for designing state-of-the-art DSP systems. A case study in the first chapter is the basis for more than 30 design examples throughout. The following chapters deal with computer arithmetic concepts, theory and the implementation of FIR and IIR filters, multirate digital signal processing systems, DFT and FFT algorithms, and

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advanced algorithms with high future potential. Each chapter contains exercises. The VERILOG source code and a glossary are given in the appendices, while the accompanying CD-ROM contains the examples in VHDL and Verilog code as well as the newest Altera "Baseline" software. This edition has a new chapter on adaptive filters, new sections on division and floating point arithmetics, an up-date to the current Altera software, and some new exercises.

A Novel

Ford, Ferrari, and Their Battle for Speed and Glory at Le Mans

GM G-Body Performance Projects 1978-1987

Restructuring and Geographic Change in the Auto Industry

Character Strengths and Virtues

The Car Hacker's Handbook

This book offers a comprehensive look at an industry that plays a growing role in motor vehicle production in the United States.

The truck's role in American society changed dramatically from the 1960s through the 1980s, with the rise of off-roaders, the van craze of the 1970s and minivan revolution of the 1980s, the popularization of the SUV as family car and the diversification of the pickup truck into multiple forms and sizes. This comprehensive reference book follows the form of the author's popular volumes on American cars. For each year, it provides an industry overview and, for each manufacturer, an update on new models and other news, followed by a wealth of data: available powertrains, popular options, paint colors

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and more. Finally, each truck is detailed fully with specifications and measurements, prices, production figures, standard equipment and more.

1855: The Industrial Revolution is in full and inexorable swing, powered by steam-driven cybernetic Engines. Charles Babbage perfects his Analytical Engine and the computer age arrives a century ahead of its time. And three extraordinary characters race toward a rendezvous with history—and the future: Sybil Gerard—a fallen woman, politician’s tart, daughter of a Luddite agitator Edward “Leviathan” Mallory—explorer and paleontologist Laurence Oliphant—diplomat, mystic, and spy. Their adventure begins with the discovery of a box of punched Engine cards of unknown origin and purpose. Cards someone wants badly enough to kill for. Part detective story, part historical thriller, *The Difference Engine* is the collaborative masterpiece by two of the most acclaimed science fiction authors writing today. Provocative, compelling, intensely imagined, it is a startling extension of Gibson’s and Sterling’s unique visions—and the beginning of movement we know today as “steampunk!”

*The Statistical Sleuth: A Course in Methods of Data Analysis*

*Automotive Engineering International*

*Basic Methods of Policy Analysis and Planning --*

*Pearson eText*

*Strategic Modelling and Business Dynamics*

*A Critical Apprenticeship in Rhetorical Criticism*

*Go Like Hell*

**"Character" has become a front-and-center topic in contemporary discourse, but this term does not have**

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**a fixed meaning. Character may be simply defined by what someone does not do, but a more active and thorough definition is necessary, one that addresses certain vital questions. Is character a singular characteristic of an individual, or is it composed of different aspects? Does character--however we define it--exist in degrees, or is it simply something one happens to have? How can character be developed? Can it be learned? Relatedly, can it be taught, and who might be the most effective teacher? What roles are played by family, schools, the media, religion, and the larger culture? This groundbreaking handbook of character strengths and virtues is the first progress report from a prestigious group of researchers who have undertaken the systematic classification and measurement of widely valued positive traits. They approach good character in terms of separate strengths--authenticity, persistence, kindness, gratitude, hope, humor, and so on--each of which exists in degrees. Character Strengths and Virtues classifies twenty-four specific strengths under six broad virtues that consistently emerge across history and culture: wisdom, courage, humanity, justice, temperance, and transcendence. Each strength is thoroughly examined in its own chapter, with special attention to its meaning, explanation, measurement, causes, correlates, consequences, and development across the life span, as well as to strategies for its deliberate cultivation. This book demands the attention of anyone interested in psychology and what it can teach about the good life.**

**Praise for How I Became a Quant "Led by two top-notch quants, Richard R. Lindsey and Barry**

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**Schachter, How I Became a Quant details the quirky world of quantitative analysis through stories told by some of today's most successful quants. For anyone who might have thought otherwise, there are engaging personalities behind all that number crunching!" --Ira Kawaller, Kawaller & Co. and the Kawaller Fund "A fun and fascinating read. This book tells the story of how academics, physicists, mathematicians, and other scientists became professional investors managing billions." --David A. Krell, President and CEO, International Securities Exchange "How I Became a Quant should be must reading for all students with a quantitative aptitude. It provides fascinating examples of the dynamic career opportunities potentially open to anyone with the skills and passion for quantitative analysis." --Roy D. Henriksson, Chief Investment Officer, Advanced Portfolio Management "Quants"--those who design and implement mathematical models for the pricing of derivatives, assessment of risk, or prediction of market movements--are the backbone of today's investment industry. As the greater volatility of current financial markets has driven investors to seek shelter from increasing uncertainty, the quant revolution has given people the opportunity to avoid unwanted financial risk by literally trading it away, or more specifically, paying someone else to take on the unwanted risk. How I Became a Quant reveals the faces behind the quant revolution, offering you?the?chance to learn firsthand what it's like to be a?quant today. In this fascinating collection of Wall Street war stories, more than two dozen quants detail their roots, roles, and contributions, explaining what they do and how**



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they do it, as well as outlining the sometimes unexpected paths they have followed from the halls of academia to the front lines of an investment revolution.

Designed for teaching astrophysics to physics students at advanced undergraduate or beginning graduate level, this textbook also provides an overview of astrophysics for astrophysics graduate students, before they delve into more specialized volumes. Assuming background knowledge at the level of a physics major, the textbook develops astrophysics from the basics without requiring any previous study in astronomy or astrophysics. Physical concepts, mathematical derivations and observational data are combined in a balanced way to provide a unified treatment. Topics such as general relativity and plasma physics, which are not usually covered in physics courses but used extensively in astrophysics, are developed from first principles. While the emphasis is on developing the fundamentals thoroughly, recent important discoveries are highlighted at every stage.

**Business Horizons**

**Foundry Products: Competitive Conditions in the U.S. Market, Inv. 332-460**

**The Difference Engine**

**American Light Trucks and Utility Vehicles, 1967-1989**

**Making Sense of Messages**

**An Oral History as Told by Jon Stewart, the Correspondents, Staff and Guests**

The bestselling citizen's guide to economics Basic Economics is a citizen's guide to economics, written

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for those who want to understand how the economy works but have no interest in jargon or equations. Bestselling economist Thomas Sowell explains the general principles underlying different economic systems: capitalist, socialist, feudal, and so on. In readable language, he shows how to critique economic policies in terms of the incentives they create, rather than the goals they proclaim. With clear explanations of the entire field, from rent control and the rise and fall of businesses to the international balance of payments, this is the first book for anyone who wishes to understand how the economy functions. This fifth edition includes a new chapter explaining the reasons for large differences of wealth and income between nations. Drawing on lively examples from around the world and from centuries of history, Sowell explains basic economic principles for the general public in plain English.

Now in its second edition *Maritime Economics* provides a valuable introduction to the organisation and workings of the global shipping industry. The author outlines the economic theory as well as many of the operational practicalities involved. Extensively revised for the new edition, the book has many clear illustrations and tables. Topics covered include: \* an overview of international trade \* Maritime Law \* economic organisation and principles \* financing ships and shipping companies \* market research and forecasting.

The General Motors G-Body is one of the manufacturer's most popular chassis, and includes

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cars such as Chevrolet Malibu, Chevrolet Monte Carlo and El Camino; the Buick Regal, the Oldsmobile Cutlass Supreme; the Pontiac Grand Prix, and more.

Who Really Made Your Car?

The National Rural Letter Carrier

High-Performance Differentials, Axels, and Drivelines

A Guide for the Penetration Tester

Digital Signal Processing with Field Programmable Gate Arrays

Car Hacks and Mods For Dummies

**NEW YORK TIMES BESTSELLER** The complete, uncensored history of the award-winning *The Daily Show* with Jon Stewart, as told by its correspondents, writers, and host. For almost seventeen years, *The Daily Show* with Jon Stewart brilliantly redefined the borders between television comedy, political satire, and opinionated news coverage. It launched the careers of some of today's most significant comedians, highlighted the hypocrisies of the powerful, and garnered 23 Emmys. Now the show's behind-the-scenes gags, controversies, and camaraderie will be chronicled by the players themselves, from legendary host Jon Stewart to the star cast members and writers-including Samantha Bee, Stephen Colbert, John Oliver, and Steve Carell - plus some of *The Daily Show*'s most prominent guests and adversaries: John and Cindy McCain, Glenn Beck, Tucker Carlson, and many more. This oral history takes the reader behind the curtain for all the show's highlights, from its origins as Comedy Central's underdog late-night program to Trevor Noah's succession,

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rising from a scrappy jester in the 24-hour political news cycle to become part of the beating heart of politics—a trusted source for not only comedy but also commentary, with a reputation for calling bullshit and an ability to effect real change in the world. Through years of incisive election coverage, passionate debates with President Obama and Hillary Clinton, feuds with Bill O'Reilly and Fox, and provocative takes on Wall Street and racism, *The Daily Show* has been a cultural touchstone. Now, for the first time, the people behind the show's seminal moments come together to share their memories of the last-minute rewrites, improvisations, pranks, romances, blow-ups, and moments of Zen both on and off the set of one of America's most groundbreaking shows.

Modern cars are more computerized than ever.

Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. *The Car Hacker's Handbook* will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and

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more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker ' s Handbook will show you how to: – Build an accurate threat model for your vehicle – Reverse engineer the CAN bus to fake engine signals – Exploit vulnerabilities in diagnostic and data-logging systems – Hack the ECU and other firmware and embedded systems – Feed exploits through infotainment and vehicle-to-vehicle communication systems – Override factory settings with performance-tuning techniques – Build physical and virtual test benches to try out exploits safely If you ' re curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker ' s Handbook your first stop.

This textbook provides a broad introduction to continuous and discrete dynamical systems. With its hands-on approach, the text leads the reader from basic theory to recently published research material in nonlinear ordinary differential equations, nonlinear optics, multifractals, neural networks, and binary oscillator computing.

Dynamical Systems with Applications Using Python takes advantage of Python ' s extensive visualization, simulation, and algorithmic tools to study those topics in nonlinear dynamical systems through numerical algorithms and generated diagrams. After a tutorial introduction to Python, the first part of the book deals with continuous systems using differential equations, including both ordinary and delay differential equations. The second part of the book deals with discrete dynamical

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systems and progresses to the study of both continuous and discrete systems in contexts like chaos control and synchronization, neural networks, and binary oscillator computing. These later sections are useful reference material for undergraduate student projects. The book is rounded off with example coursework to challenge students' programming abilities and Python-based exam questions. This book will appeal to advanced undergraduate and graduate students, applied mathematicians, engineers, and researchers in a range of disciplines, such as biology, chemistry, computing, economics, and physics. Since it provides a survey of dynamical systems, a familiarity with linear algebra, real and complex analysis, calculus, and ordinary differential equations is necessary, and knowledge of a programming language like C or Java is beneficial but not essential.

Phil Edmonston's Lemon-Aid SUVs, Vans, and Trucks  
2005

4.6L & 5.4L Ford Engines

How to Rebuild - Revised Edition

Basic Economics

Dynamical Systems with Applications using Python

Please Read (if at All Possible)

Traces the story of how Henry Ford II endeavored to compete against Enzo Ferrari for dominance in the speed- and style-driven 1960s automobile industry, revealing the pivotal contributions of visionary Lee Iacocca and former racing champion-turned-engineer Carroll Shelby.

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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.

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

The Geography of Transport Systems

Popular Science

From Novice to Professional

How I Became a Quant

The Daily Show (The Book)

An Introduction to Industrial and

Organisation Psychology

\* The only truly Beginning level book on the market that is tailored to the needs of aspiring developers with little or no experience. Assumes no prior SQL Server knowledge. \*

Explores the new 2005 features fully but also suitable for SQL Server 2000 users. \* The book provides everything an aspiring developer needs to start building SQL Server database applications.

Since 1991, the popular and highly modifiable Ford 4.6-liter has become a modern-day V-8 phenomenon, powering everything from Ford Mustangs to hand-built hot rods and the 5.4-liter has powered trucks, SUVs, the Shelby GT500, and more. The wildly popular 4.6-liter has created an industry unto

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itself with a huge supply of aftermarket high-performance parts, machine services, and accessories. Its design delivers exceptional potential, flexibility, and reliability. The 4.6-liter can be built to produce 300 hp up to 2,000 hp, and in turn, it has become a favorite among rebuilders, racers, and high-performance enthusiasts. *4.6-/5.4-Liter Ford Engines: How to Rebuild* expertly guides you through each step of rebuilding a 4.6-liter as well as a 5.4-liter engine, providing essential information and insightful detail. This volume delivers the complete nuts-and-bolts rebuild story, so the enthusiast can professionally rebuild an engine at home and achieve the desired performance goals. In addition, it contains a retrospective of the engine family, essential identification information, and component differences between engines made at Romeo and Windsor factories for identifying your engine and selecting the right parts. It also covers how to properly plan a 4.6-/5.4-liter build-up and choose the best equipment for your engine's particular application. As with all Workbench Series books, this book is packed with detailed photos and comprehensive captions, where you are guided step by step through the disassembly, machine work, assembly, start-up, break-in, and tuning procedures for all iterations of the 4.6-/5.4-liter engines, including 2-valve and 3-valve SOHC and the 4-valve DOHC versions. It also includes an easy-to-reference spec chart and suppliers guide so you find the right equipment for your particular build up.

Updated in its 3rd edition, *Basic Methods of Policy Analysis and Planning* presents quickly applied methods for analyzing and resolving planning and policy issues at state, regional, and urban levels. Divided into two parts, *Methods* which presents quick methods in nine chapters and is organized around the



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steps in the policy analysis process, and Cases which presents seven policy cases, ranging in degree of complexity, the text provides readers with the resources they need for effective policy planning and analysis. Quantitative and qualitative methods are systematically combined to address policy dilemmas and urban planning problems. Readers and analysts utilizing this text gain comprehensive skills and background needed to impact public policy.

Insights from 25 of Wall Street's Elite

Maritime Economics

The Commercial Motor

The Girl Project

Work in the 21st Century

***GM G-Body Performance Projects 1978-1987***  
***CarTech Inc***

***Collects photographs and letters from teenage girls asked to describe or define themselves and their world.***

***Mobility is fundamental to economic and social activities such as commuting, manufacturing, or supplying energy.***

***Each movement has an origin, a potential set of intermediate locations, a destination, and a nature which is linked with geographical attributes. Transport systems composed of infrastructures, modes and terminals are so embedded in the socio-economic life of individuals, institutions and corporations that they are often invisible to the consumer. This is paradoxical as the perceived invisibility of transportation is derived from its efficiency. Understanding how mobility is linked with geography is main the purpose of this book. The third***

*edition of The Geography of Transport Systems has been revised and updated to provide an overview of the spatial aspects of transportation. This text provides greater discussion of security, energy, green logistics, as well as new and updated case studies, a revised content structure, and new figures. Each chapter covers a specific conceptual dimension including networks, modes, terminals, freight transportation, urban transportation and environmental impacts. A final chapter contains core methodologies linked with transport geography such as accessibility, spatial interactions, graph theory and Geographic Information Systems for transportation (GIS-T). This book provides a comprehensive and accessible introduction to the field, with a broad overview of its concepts, methods, and areas of application. The accompanying website for this text contains a useful additional material, including digital maps, PowerPoint slides, databases, and links to further reading and websites. The website can be accessed at:*

*<http://people.hofstra.edu/geotrans> This text is an essential resource for undergraduates studying transport geography, as well as those interest in economic and urban geography, transport planning and engineering. On the Move!*

*Beginning SQL Server 2005 for Developers*

*A Handbook and Classification*

*Technology Review*

*Modern Control Systems*

*A Mathematical Introduction to Robotic Manipulation*

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*A Mathematical Introduction to Robotic Manipulation presents a mathematical formulation of the kinematics, dynamics, and control of robot manipulators. It uses an elegant set of mathematical tools that emphasizes the geometry of robot motion and allows a large class of robotic manipulation problems to be analyzed within a unified framework. The foundation of the book is a derivation of robot kinematics using the product of the exponentials formula. The authors explore the kinematics of open-chain manipulators and multifingered robot hands, present an analysis of the dynamics and control of robot systems, discuss the specification and control of internal forces and internal motions, and address the implications of the nonholonomic nature of rolling contact are addressed, as well. The wealth of information, numerous examples, and exercises make A Mathematical Introduction to Robotic Manipulation valuable as both a reference for robotics researchers and a text for students in advanced robotics courses.*

*THE STATISTICAL SLEUTH: A COURSE IN METHODS OF DATA ANALYSIS, Third Edition offers an appealing treatment of general statistical methods that takes full advantage of the computer, both as a computational and an analytical tool. The material is independent of any specific software package, and prominently treats modeling and interpretation in a way that goes beyond routine patterns. The book focuses on a serious analysis of real case studies, strategies and tools of modern statistical data analysis, the interplay of statistics and scientific learning, and the*

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*communication of results. With interesting examples, real data, and a variety of exercise types (conceptual, computational, and data problems), the authors get students excited about statistics. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.*

*So you want to turn your Yugo into a Viper? Sorry--you need a certified magician. But if you want to turn your sedate sedan into a mean machine or your used car lot deal into a powerful, purring set of wheels, you've come to the right place. Car Hacks & Mods for Dummies will get you turbo-charged up about modifying your car and guide you smoothly through: Choosing a car to mod Considering warranties, legal, and safety issues Hacking the ECU (Engine Control Unit) to adjust performance-enhancing factors like fuel injection, firing the spark plugs, controlling the cooling fan, and more Replacing your ECU with a plug and play system such as the APEXi Power FC or the AEM EMS system Putting on the brakes (the faster you go, the faster you'll need to stop) Setting up your car for better handling and cornering Written by David Vespremi, automotive expert, frequent guest on national car-related TV shows, track driving instructor and self-proclaimed modder, Car Hacks & Mods for Dummies gets you into the ECU and under the hood and gives you the keys to: Choosing new wheels, including everything from the basics to dubs and spinners Putting your car on a diet, because lighter means faster Basic power bolt-ons and more expensive power*

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*adders Installing roll bars and cages to enhance safety Adding aero add-ons, including front “chin” spoilers, real spoilers, side skirts, and canards Detailing, down to the best cleaners and waxes and cleaning under the hood Using OBD (on-board diagnostics) for troubleshooting Getting advice from general Internet sites and specific message boards and forums for your car’s make or model, whether it’s a Chevy pick-up or an Alfa Romeo roadster Whether you want to compete at drag strips or on road courses or simply accelerate faster on an interstate ramp, if you want to improve your car’s performance, Car Hacks & Mods for Dummies is just the boost you need. Astrophysics for Physicists*