SCHOOL OF DRIVING Physics & Your Car

Barry Parker

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The Isaac Newton School Of Driving Physics And Your Car

Sharon Kane

The Isaac Newton School Of Driving Physics And Your Car:

Isaac Newton School Driving Barry Parker, 2004-12-01 Wonderful a great resource for automobile fans who want to understand science and vice versa Alan C Tribble author of A Tribble s Guide to Space For some driving is an art for others it s a science At the Isaac Newton School of Driving though every car is a laboratory on wheels and every drive an exciting journey into the world of physics In this book physics professor Barry Parker whose father was a car mechanic and garage owner shows how almost every aspect of driving involves physics A car's performance and handling relies on concepts such as force momentum and energy Its ignition system depends on the principles of electricity and magnetism Braking relies on friction and if the brakes fail the resulting damage too can be predicted using physics Parker's first lesson describes the basics speed and acceleration why you get thrown forward while braking or outward while turning and why car advertisements boast about horsepower and torque He also discusses the thermodynamics of engines and how they can be more fuel efficient what friction and traction are and how they keep a car's tires on the road whether it's dry wet or icy how simple laws of physics enable scientists to design aerodynamic cars and high tech steering systems the high performance physics of auto racing how traffic accidents are reconstructed by police how chaos theory helps explain why traffic jams happen what cars of the future might look like and more You don't need to be an engineer to read and enjoy Parker's often entertaining book covers everything from the basics of engines and electronics to crashes and congestion Autoweek Car Physics Chuck Edmondson, 2011-03 Revving engines smoking tires and high speeds Car racing enthusiasts and race drivers alike know the thrill of competition the push to perform better and the agony and dangers of bad decisions This title explains just what s going on during any race why and how a driver can improve control and ultimately win Literature in the Content Areas Sharon Kane, 2017-05-12 This practical accessible resource will help future and practicing teachers integrate literature into their middle school or high school classrooms while also addressing content area standards and improving the literacy skills of their students Two introductory chapters are followed by five chapters that each cover a different genre Chapter 3 Informational Books Chapter 4 Fiction Chapter 5 Biography Autobiography and Memoir Chapter 6 Poetry and Chapter 7 How to and Hands on Books Each genre chapter consists of four parts Part 1 Discusses the genre and how content area teachers can use books within that genre to further content learning and enhance literacy skills Part 2 Offers hands on instructional strategies and activities using literature with activities for use in a variety of disciplines Part 3 Presents individual author studies three or four per chapter with bibliographies and guidelines for using the authors books in content area courses Part 4 Features an annotated bibliography of specially selected children and young adult literature for that genre organized by content area The annotations provide information about the book which can be used to prepare booktalks and teaching ideas for using in a specific content area Altogether these sections contain more than 600 annotated entries tabbed by subject area including art English language arts languages and culture math and technology music PE

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