



Fast Car Physics

Chuck Edmondson

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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. But driving faster and better involves more than just high horsepower and tightly tuned engines. Physicist and amateur racer Chuck Edmondson thoroughly discusses the physics underlying car racing and explains just what's going on during any race, why, and how a driver can improve control and ultimately win.

The world of motorsports is rich with excitement and competition—and physics. Edmondson applies common mathematical theories to real-world racing situations to reveal the secrets behind successful fast driving. He explains such key concepts as how to tune your car and why it matters, how to calculate 0 to 60 mph times and quarter-mile times and why they are important, and where, when, why, and how to use kinematics in road racing. He wraps it up with insight into the impact and benefit of green technologies in racing. In each case, Edmondson's in-depth explanations and worked equations link the physics principles to qualitative racing advice.

From selecting shifting points to load transfer in car control and beyond, *Fast Car Physics* is the ideal source to consult before buckling up and cinching down the belts on your racing harness.

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