



**The Car Hacker's Handbook** No Starch Press

In an age of mounting energy crises, James A. Fay and Dan S. Golomb's *Energy and the Environment* offers a timely treatment of a critical problem in urban-industrial societies: the worldwide growth of energy use and the destructive relationship between this energy use and environmental degradation. This comprehensive text provides the scientific and technological background for understanding how our ever-increasing use of energy threatens the natural environment at local, regional, and global scales and how this threat could be mitigated by more efficient use of conventional energy sources and their replacement by renewable energy sources. Designed for upper-level undergraduate and first-year graduate students, *Energy and the Environment* is essential reading for students and professionals in energy and environmental sciences and technology. Features · Describes energy technologies and their effectiveness in transforming fossil, nuclear, and renewable energy into useful mechanical or electrical power · Emphasizes the generation of electric power and the technological improvements that increase power generation efficiency and reduce air pollutant emissions from power plants · Examines the use of energy in the transportation sector and how vehicle design and engine efficiency improvements could reduce fuel use and pollutant emissions · Objectively surveys the field of renewable energy technologies and the prospects of increasing the share of renewable energy among all energy sources · Analyzes the energy sources of toxic emissions to air, water, and land and their effects on environmental quality at local and regional scales · Examines global climate change, energy consumption's contribution to it, and the salient technologies being developed to mitigate this effect · Equips engineering majors, science majors, and professionals with the basic facts needed to develop solutions to these pressing environmental problems

**Lemon-Aid Used Cars and Trucks 2011–2012** Consumer Guide Books Pub

An updated edition of the classic reference on the dynamics of road and off-road vehicles As we enter a new millennium, the vehicle industry faces greater challenges than ever before as it strives to meet the increasing demand for safer, environmentally friendlier, more energy efficient, and lower emissions products. *Theory of Ground Vehicles, Third Edition* gives aspiring and practicing engineers a fundamental understanding of the critical factors affecting the performance, handling, and ride essential to the development and design of ground vehicles that meet these requirements. As in previous editions, this book focuses on applying engineering principles to the analysis of vehicle behavior. A large number of practical examples and problems are included throughout to help readers bridge the gap between theory and practice. Covering a wide range of topics concerning the dynamics of road and off-road vehicles, this Third Edition is filled with up-to-date information, including: \* The Magic Formula for characterizing pneumatic tire behavior from test data for vehicle handling simulations \* Computer-aided methods for performance and design evaluation of off-road vehicles, based on the author's own research \* Updated data on road vehicle transmissions and operating fuel economy \* Fundamentals of road vehicle stability control \* Optimization of the performance of four-wheel-drive off-road vehicles and experimental substantiation, based on the author's own investigations \* A new theory on skid-steering of tracked vehicles, developed by the author.

**Theory of Ground Vehicles** Consumer Guide Books Pub

This buyer's guide presents MSRP and dealer invoice prices and reviews for new cars, and includes standard and optional equipment, specifications and reviews, and buying and leasing advice. A toll-free car buying service is also offered.

**Chilton's Import Auto Service Manual** Transportation Research Board

A paperback of the hardcover edition, first published in 1962. The book describes Goethe's Weimar from documents and research and interprets the connections between German culture and German society both in the age of Goethe and later. To this book Professor Bruford has written a sequel, *The German Tradition of Self-Cultivation*, and the two books together offer an introduction to the whole evolution of the German intellectual tradition.

**LOVERS & PLAYERS** Consumer Guide Books Pub

Explains how cars work, answers questions about repair problems, and tells how to prolong the life of a car

**Vehicle Dynamics** Canbooks

Human error is involved in more than 90 percent of traffic accidents, and of those accidents, most are associated with visual distractions, or looking-but-failing-to-see errors. *Human Factors of Visual and Cognitive Performance in Driving* gathers knowledge from a human factors psychology standpoint and provides deeper insight into traffic -user behavior and the ways drivers acquire information from the road. Emphasizes Drivers as Visual Information Processors Because driving is an eyes-wide-open task, drivers are exposed to a multitude of visual stimuli along their journey. This information must be correctly processed in order to make the right

decisions and perform precise safety maneuvers. With contributions from more than 20 leading experts, this detailed resource discusses road and markings design, new technologies, signage, distraction, safety, situation awareness, workload, driving experience, fatigue, and driving interventions with the goal of improving driving behavior and preventing accidents. Addresses These Key Areas: Visual attention and in-vehicle technologies Interventions to reduce road trauma Avoiding collisions and the failures involved in that endeavor Using jargon-free language that is easily understood, this book compresses research from the past few decades into one accessible resource. It clearly and cohesively provides ergonomics and human factor engineers, industrial designers, and highway and roadway engineers with an overarching understanding of the incessant visual demands drivers face.