

Auto Fundamentals

Workbook for Auto Fundamentals : how and why of the Design, Construction, and Operation of Automobiles : Applicable to All Makes and Models
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organized to follow the textbook on a chapter by chapter basis providing questions to help the student review the material presented in the chapter this supplement is a consumable resource designed with perforated pages so that a given chapter can be removed and turned in for grading or checking

auto fundamentals leads students through the design construction and operation of all major automotive systems ideal for entry level automotive courses this textbook establishes a foundational knowledge of the overall automotive industry and the different career opportunities available written in a manner easily accessible to students entering the automotive field the information in this textbook begins with the fundamentals of automotive technology and builds upon them to offer a complete operational view of the modern automobile each automotive system is explained in detail starting with its basic function and progressing to the construction and operation of its individual components

auto fundamentals presents the how and why of vehicle construction and operation in a concise easy to understand manner back cover

one of the most popular automotive theory texts available auto fundamentals provides a study of the design construction and operation of all major automotive systems content centers around the theory of automotive operation how and why systems interact

provide numerous instructional resources that support each chapter of the textbook including teaching strategies test masters answer keys introductory activities reproducible masters and additional resources all of the resources for teaching each chapter are conveniently grouped together

explanations of the workings preventive maintenance troubleshooting and repair of major automotive systems help the car owner prolong the life of his vehicle

an introduction to vehicle dynamics and the fundamentals of mathematical modeling fundamentals of vehicle dynamics and modeling is a student focused textbook providing an introduction to vehicle dynamics and covers the fundamentals of vehicle model development it illustrates the process for construction of a mathematical model through the application of the equations of motion the text describes techniques for solution of the model and demonstrates how to conduct an analysis and interpret the results a significant portion of the book is devoted to the classical linear dynamic models and provides a foundation for understanding and predicting vehicle behaviour as a consequence of the design parameters modeling the pneumatic tire is also covered along with methods for solving the suspension kinematics problem and prediction of acceleration and braking performance the book introduces the concept of multibody dynamics as applied to vehicles and provides insight into how large and high fidelity models can be constructed it includes the development of a method suitable for computer implementation which can automatically generate and

solve the linear equations of motion for large complex models key features accompanied by a website hosting matlab code supported by the global education delivery channels fundamentals of vehicle dynamics and modeling is an ideal textbook for senior undergraduate and graduate courses on vehicle dynamics

the various systems in an automobile are discussed and their parts analyzed

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