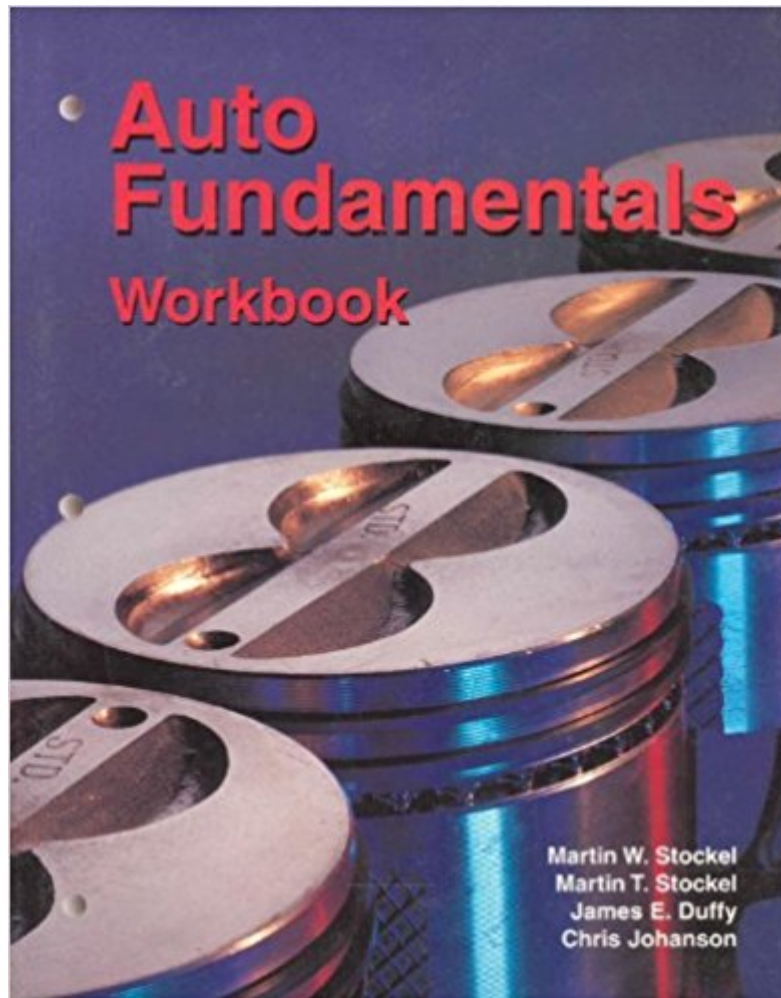




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Auto Fundamentals



Synopsis

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Book Information

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Customer Reviews

work book to assist with training

Upon purchasing my 3000GT SL, it was as if a whole new world opened up in my eyes. The petrolhead culture. Famous for the Japanese domestic market and American muscle fueled, all while German and Korean engineering take a step back in their own territory and style of cars. Not even a few hours in after I began to drive my car home, I stumbled upon a souped up 2006 WRX STI, revving his engine next to me at a stoplight and flashing me a cliché Fast and Furious look. "Yoooo, is that twin turbo?" he snarked. "No I wish," I said, hesitantly. Being that he seems like the typical egotistical show-off, I was almost tempted to make a knock-knock joke, since Subaru's have the tendency to have engine knocking. Right as he did a burn-out in front of me, it irritated me enough to intentionally turn this daily driver into a racecar, and show him up the next time if he ever came my way. Browsing upon the various workbooks and textbooks in , I came across this workbook, loaded with 4 star ratings and a reasonable price of \$21.03. It took a swift three days to arrive to my apartment, and there it bestowed upon my doorstep in a sturdy envelope. With eager eyes, I proceeded to peruse through

the whole book, scanning for the pages that described the typical additions to your car that would make your car insurance cringe. Blow-off valves, turbochargers, superchargers, coilovers, air-bag suspension systems, cold-air intakes, limited slip differentials, roll cages—none were apparent in this book. My heart broke a little bit. I was hoping to refer to this book, rather than cramming episodes of Mighty Car Mods on youtube into my brain. Then, after giving this book a chance by working through the problems, along with the critical thinking scenarios presented in this book, it redeemed itself to me. The authors really meant it when they say it provides the “fundamental aspects in auto mechanics. I may have learned my share in working and fixing cars with my dad, but it delved in depth on the thermodynamics that occur in things such as the four stroke cycle of an engine, and what the process occurs in catalytic converters. This workbook even went so far as to name off typical troubleshooting problems that the everyday driver encounters, like that annoying high pitch sound that just won’t go away, no matter how many times you take apart and put back together your car. Although this workbook didn’t give me the skills to turn my car Superstreet Magazine worthy, it assisted in helping me brush up on my maintenance skills. This book is for your average Joe, who wants to know more about what’s under the hood of your car in detail, with analogies and quizzes to better help with retention of the information presented. If you’re a petrolhead trying to further expand your knowledge—who can easily tell the difference between a Magnaflow and a grossly welded on lawn mower exhaust system—this book may be child’s play compared to what you currently know. Overall, it is a good workbook, and I would definitely reference this again, paired with my manual if little things like my alternator bearings or timing belt isn’t exactly the way it should be.

I’m a girl. I say this only to illustrate the fact that, although my Dad and stepbrother restore cars, my stepdad was a Cadillac mechanic and my brother went to WyoTech, I was not taught anything other than how to jump a vehicle and change a tire. This book starts with the very basics. How awesome! This may be tiresome for some readers, but it really helped me to understand what an engine does and how all the parts actually worked together. It is Fundamentals, after all. I have been supplementing the text with websites and actual questions and demonstrations from the men in my life, and I am getting a pretty good grip on things. Now I can check all my fluids, change my own oil and filter, and know how to bleed the brakes. My 454 threw a rod, so we replaced it with a 350, and I learned about automatic vs manual transmissions, and engine ‘anatomy.’ This book helped my feel not quite so much like a dummkopf in the garage!

Book is awesome for people who know little about what makes your car tick. I am learning a TON. It goes into the minutest of details about everything from pistons to brake system.

I thoroughly enjoyed this book. I started this book not knowing much about cars and ended with a vast amount of knowledge. The book goes through basically every system under the hood of a car. It starts of extremely basic and works upwards in complexity as the book and chapters progress. Before reading this book it would be helpful to have the following: 1. Knowledge of Physics, most importantly electricity and magnetism. There are a number of different applications inside a car that make use of solenoids, magnetic fields, inductance, AC/DC current, and many more concepts in this field. Knowledge and understanding of circuit diagrams also would help into understanding how things work. 2. Principles of hydraulic systems. That's basically it, being a Physics student I had these at my disposal so it wasn't too bad for me. The book DOES have explanations of all of these concepts, but it still would make understanding easier if you had the knowledge prior. Here are the pros and cons of this book: PROS: -Starts concepts off in a very basic manner but progresses into complexity. This helps satisfy people who may just be learning, and people who want to know the hardcore details of things. -VERY informative. There is so much information in this book that it is pretty much assured you will finish with a thorough understanding of the way cars work and run. It will most definitely help you diagnose complicated problems that you might be having with your car. -The end of each chapter provides questions and key words that are essential for understanding. CONS: -Many times in this book, it will refer to a system in a car that it has not yet been defined. For example, it may reference the differential in a suspension system, yet it has not said what a differential is. It would probably help (it did for me at least) to know a SMALL amount of information about each system in the car before you read this book. Articles on "ehow.com" are excellent in providing a good amount of information in a short concise article. -There are no answers to the questions at the end of each chapter. I guess there is a teachers edition or something out there, but the book I had had no answers for the questions. Which means you really do not know if you are right or not when you answer the questions. -The information on Anti-Lock breaks was extremely lacking. I found it strange that every other chapter of the book went into great detail except for on Anti-Lock breaks. That's really all there is to say. I fully enjoyed this book. It has an incredible amount of information and you will definitely finish with an extensive knowledge about cars. VERY VERY please with this purchase! :D

A present for a recent high school grad who just discovered the excitement of four wheels. He was very pleased with this resource for detail.

Nice for overall detailed view of entire auto systems with multitude of great images.

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