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This book surveys state-of-the-art research on and developments in lithium-ion batteries for hybrid and electric vehicles. It summarizes their features in terms of performance, cost, service life, management, charging facilities, and safety. Vehicle electrification is now commonly accepted as a means of reducing fossil-fuels consumption and air pollution. At present, every electric vehicle on the road is powered by a lithium-ion battery. Currently, batteries based on lithium-ion technology are ranked first in terms of performance, reliability and safety. Though other systems, e.g., metal-air, lithium-sulphur, solid state, and aluminium-ion, are now being investigated, the lithium-ion system is likely to dominate for at least the next decade – which is why several manufacturers, e.g., Toyota, Nissan and Tesla, are chiefly focusing on this technology. Providing comprehensive information on lithium-ion batteries, the book includes contributions by the world's leading experts on Li-ion batteries and vehicles.

"The automotive maven and former Member of Parliament might be the most trusted man in Canada, an inverse relationship to the people he writes about." – The Globe and Mail Lemon-Aid shows car and truck buyers how to pick the cheapest and most reliable vehicles from the past 30 years of auto production. This brand-new edition of the bestselling guide contains updated information on secret service bulletins that can save you money. Phil describes sales and service scams, lists which vehicles are factory goofs, and sets out the prices you should pay. As Canada's automotive "Dr. Phil" for over 40 years, Edmonston pulls no punches. His Lemon-Aid is more potent and provocative than ever. This textbook will help you learn all the skills you need to pass all Vehicle Electrical and Electronic Systems courses and qualifications. As electrical and electronic systems become increasingly more complex and fundamental to the workings of modern vehicles, understanding these systems is essential for automotive technicians. For students new to the subject, this book will help to develop this knowledge, but will also assist experienced technicians in keeping up with recent technological advances. This new edition includes information on developments in pass-through technology, multiplexing, and engine control systems. In full colour and covering the latest course specifications, this is the guide that no student enrolled on an automotive maintenance and repair course should be without. Designed to make learning easier, this book contains: Photographs, flow charts, quick reference tables, overview descriptions and step-by-step instructions. Case studies to help you put the principles covered into a real-life context. Useful margin features throughout, including definitions, key facts and 'safety first' considerations.

A comprehensive and dedicated guide to automotive production lines, The Automotive Body Manufacturing Systems and Processes addresses automotive body processes from the stamping operations through the final assembly activities. To begin, it discusses current metal forming practices, including stamping engineering, die development, and dimensional validation, and new innovations in metal forming, such as folding based forming, super-plastic, and hydro forming technologies. The first section also explains details of automotive spot welding (welding lobes), arc welding, and adhesive bonding, in addition to flexible fixturing systems and welding robotic cells. Guiding readers through each stage in the process of automotive painting, including the calculations needed to compute the number of applicators and paint consumption based on vehicle dimensions and demand, along with the final assembly and automotive mechanical fastening strategies, the book's systematic coverage is unique. The second module of the book focuses on the layout strategies of the automotive production line. A discussion of automotive aggregate planning and master production scheduling ensures that the reader is familiar with operational aspects. The book also reviews the energy emissions and expenditures of automotive production processes and proposes new technical solutions to reduce environmental impact. Provides extensive technical coverage of automotive production processes, discussing flexible stamping, welding and painting lines Gives complete information on automotive production costing as well as the supplier selection process Covers systems from the operational perspective, describing the aggregate and master production planning Details technical aspects of flexible automotive manufacturing lines Methodically discusses the layout and location strategies of automotive manufacturing systems to encompass the structural elements Features topic-related questions with answers on a companion website

For the first time in one volume, Phil Edmonston, Canada's automotive "Dr. Phil," covers all used vehicles, packing this guide with insider tips to help the consumer make the safest and cheapest choice possible from cars and trucks of the past 25 years. This book is intended to help new users learn the basic concepts of SOLIDWORKS and good solid modeling techniques in an easy to follow guide that includes video instruction. It is a great starting point for those new to SOLIDWORKS or as a teaching aid in classroom training to become familiar with the software's interface, basic commands and strategies as users complete a series of models while learning different ways to accomplish a particular task. At the end of this book, you will have a fairly good understanding of the SOLIDWORKS interface and the most commonly used commands for part modeling, assembly and detailing after completing a series of components and their 2D drawings complete with Bill of Materials. The book focuses on the processes to complete the modeling of a part, instead of focusing on individual software commands or operations, which are generally simple enough to learn. The author strived hard to include the commands required in the Certified SOLIDWORKS Associate and Certified SOLIDWORKS Professional Exams as listed on the SOLIDWORKS website. SOLIDWORKS is an easy to use CAD software that includes many time saving tools that will enable new and experienced users to complete design tasks faster than before. Most commands covered in this book have advanced options, which may not be covered in this book. This is meant to be a starting point to help new users to learn the basic and most frequently used commands.

Presents the latest safety ratings, dealer prices, fuel economy, insurance premiums, maintenance costs, and tires of new model automobiles.

(Book). Here, in a replica of a recently exhumed tome (discovered in reverb chamber #4 beneath the Capitol Studios lot), we present to you the companion book to Mixerman's popular Zen and the Art of Mixing . Providing valuable insights for both neophyte and veteran alike, Mixerman reveals all that goes into the most coveted job in record-making producing. In his signature style, Mixerman provides us a comprehensive blueprint for all that the job entails from the organizational discipline needed to run a successful recording session, to the visionary leadership required to inspire great performances. This enhanced multimedia edition brings producers deeper into the concepts covered in the text. In over an hour's worth of supplemental video clips, Mixerman gives added insight into the various aspects of producing, from choosing songs and deciding on arrangements to managing production budgets. As Mixerman points out, "It doesn't matter if you're producing a country album or a hard-rock album: the goal is to communicate with the audience in a manner they understand."

Offering in-depth coverage of hybrid propulsion topics, energy storage systems and modelling, and supporting electrical systems, this book will be an invaluable resource for practising engineers and managers involved in all aspects of hybrid vehicle development, modelling, simulation and testing.

A guide to buying a used car or minivan features information on the strengths and weaknesses of each model, a safety summary, recalls, warranties, and service tips.

A complete guide to modifying small-block Chevrolet engines used in the powerboat industry. Includes a detailed look at

the differences between auto and marine engines, and a breakdown on the marine components of a small-block Chevy. Fully illustrated.

This practical and engaging book provides a coherent approach to global business responsibility and ethics based on the latest research, theory, and practice. The authors incorporate numerous interesting and current real world examples to support the argument that corporations need to - and can - identify and implement processes that foster ethical conduct, ensure basic human rights, protect the natural environment, and enhance social justice wherever businesses operate around the globe. "Global Business Citizenship" combines elements of political theory, stakeholder relationships, business ethics, corporate social performance, accountability and measurement, and organizational change. Its practical approach encompasses "best practices" in stakeholder management, experiments in applying corporate values to local conditions, and social environmental auditing and reporting. Focusing on the strategic alignment and change management process for implementing business citizenship principles and practices, it is an essential supplement for any course concerned with ethics and social responsibility in today's global business climate.

On August 16th, 2016 Santiago Lange amazed the sporting world when he and his teammate Cecilia Carranza won the gold medal in sailing at the Olympic Games in Rio de Janeiro. At that time he was 54 years old, it was his sixth Olympic participation and he fought against unbelievable obstacles. His victory was an incomparable demonstration of his will to fight – not even one year after he had to undergo surgery because of lung cancer. Santiago Lange gave the world of sailing an unforgettable moment of glory. But how did he manage to get back on his feet in such a short time, to train without rest and to take part at the Olympic Games again? And why did he fight when his body, friends and family thought it was time to stop?"Nothing gives me more joy of life and adrenaline than the challenge of sport. When I'm on the water, my thoughts rest. Time stands still. I feel the wave, I feel the wind turning. The tension of the boat tells me that I have to change course or trim. I react, the boat gets faster and everything else doesn't exist anymore. It's always been like that." Santiago Lange

S40 Saloon & V50 Estate, inc. special/limited editions. Does NOT cover Classic , T5 or AWD (four-wheel-drive) models, or facelifted range introduced July 2007. Petrol: 1.8 litre (1798cc), 2.0 litre (1999cc) & 2.4 litre (2435cc). Does NOT cover 1.6 litre or 2.5 litre petrol engines. Turbo-Diesel: 2.0 litre (1988cc). Does NOT cover 1.6 litre or 2.4 litre diesel engines.

Thinking about a knockout audio system for your car? Not sure what you need, want, or can afford? Car Audio For Dummies is a great place to find some answers! But wait — what if speakers that vibrate your floorboards don't turn you on? What if you're thinking more about hands-free phone access and a DVD player to entertain the kids? Surprise! Car Audio For Dummies can give you a hand there, too. Whether you want to feel as if your favorite band is performing right on top of your dashboard or you want to keep the soccer team entertained on the way to the tournament, this friendly guide can help. From planning your system and buying components to getting them installed and protecting your investment, you'll find plenty of wise advice. Get the scoop on: Figuring out what kind of equipment you need to do what you want Identifying good sound quality when you hear it Adding components to a factory system Choosing a video player, hands-free phone system, amplifiers, speakers, and more Finding a reliable installer (today's automotive electronics systems are so complex that you probably won't want to go it alone) Understanding warranties and returns Protecting and insuring your system Car Audio For Dummies is sort of like that knowledgeable friend you want to take along when you tackle a project like this. Sounds like a good idea, doesn't it?

The ultimate used car buyer's guide introduces readers to helpful techniques, strategies, and tips for finding the best used vehicle while providing profiles and ratings for more than 250 cars, trucks, SUVs, and minivans, as well as crash-test data, safety features, reliability history, and listings of recalls. Original. 200,000 first printing.

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