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Coax more power from your engine! This guide tells you how to choose L-series engine parts, and prepare and assemble them for optimum power and

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durability. Filled with L-series mods for road, drag and off-road racing, improved street performance, plus complete mods to crankshaft, pistons, cylinder heads, electrics, carburetion, exhaust and



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more. Covers 51, 61, 71,  
2SX, 24Z, 26Z, 28Z, 28ZX and  
pick-up truck engines.  
Includes parts interchange.

This book introduces readers  
to the theory, design and  
applications of automotive

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transmissions. It covers multiple categories, e.g. AT, AMT, CVT, DCT and transmissions for electric vehicles, each of which has its own configuration and characteristics. In turn, the book addresses the

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effective design of transmission gear ratios, structures and control strategies, and other topics that will be of particular interest to graduate students, researchers and engineers. Moreover, it

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includes real-world solutions, simulation methods and testing procedures. Based on the author's extensive first-hand experience in the field, the book allows readers to gain a deeper

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understanding of vehicle transmissions.

Master business modeling and analysis techniques with Microsoft Excel 2013, and transform data into bottom-line results. Written by

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award-winning educator Wayne Winston, this hands-on, scenario-focused guide shows you how to use the latest Excel tools to integrate data from multiple tables—and how to effectively build a

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relational data source  
inside an Excel workbook.  
Solve real business problems  
with Excel—and sharpen your  
edge Summarize data with  
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Statistics Explore new  
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prescriptive analytics Use  
Excel Trend Curves, multiple  
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OFFSET and INDIRECT Delve  
into key financial,  
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functions Make your charts  
more effective with the  
Power View tool Tame complex  
optimization problems with  
Excel Solver Run Monte Carlo  
simulations on stock prices  
and bidding models Apply  
important modeling tools

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such as the Inquire add-in

The why, what and how of the  
electric vehicle powertrain  
Empowers engineering  
professionals and students  
with the knowledge and  
skills required to engineer

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electric vehicle powertrain architectures, energy storage systems, power electronics converters and electric drives. The modern electric powertrain is relatively new for the automotive industry, and

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engineers are challenged with designing affordable, efficient and high-performance electric powertrains as the industry undergoes a technological evolution. Co-authored by two electric vehicle (EV)

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engineers with decades of experience designing and putting into production all of the powertrain technologies presented, this book provides readers with the hands-on knowledge, skills and expertise they

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need to rise to that challenge. This four-part practical guide provides a comprehensive review of battery, hybrid and fuel cell EV systems and the associated energy sources, power electronics, machines,

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and drives. The first part of the book begins with a historical overview of electromobility and the related environmental impacts motivating the development of the electric powertrain. Vehicular

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requirements for electromechanical propulsion are then presented. Battery electric vehicles (BEV), fuel cell electric vehicles (FCEV), and conventional and hybrid electric vehicles (HEV) are then described,



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contrasted and compared for vehicle propulsion. The second part of the book features in-depth analysis of the electric powertrain traction machines, with a particular focus on the induction machine and the

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surface- and interior-  
permanent magnet ac  
machines. The brushed dc  
machine is also considered  
due to its ease of operation  
and understanding, and its  
historical place, especially  
as the traction machine on

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NASA's Mars rovers. The third part of the book features the theory and applications for the propulsion, charging, accessory, and auxiliary power electronics converters. Chapters are

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presented on isolated and non-isolated dc-dc converters, traction inverters, and battery charging. The fourth part presents the introductory and applied electromagnetism required as a foundation

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throughout the book. •  
Introduces and holistically  
integrates the key EV  
powertrain technologies. •  
Provides a comprehensive  
overview of existing and  
emerging automotive  
solutions. • Provides

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experience-based expertise for vehicular and powertrain system and sub-system level study, design, and optimization. • Presents many examples of powertrain technologies from leading manufacturers. • Discusses

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the dc traction machines of  
the Mars rovers, the  
ultimate EVs from NASA. •  
Investigates the  
environmental motivating  
factors and impacts of  
electromobility. • Presents  
a structured university

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teaching stream from introductory undergraduate to postgraduate. • Includes real-world problems and assignments of use to design engineers, researchers, and students alike. • Features a companion website with



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numerous references, problems, solutions, and practical assignments. • Includes introductory material throughout the book for the general scientific reader. • Contains essential reading for government

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regulators and policy makers. Electric Powertrain: Energy Systems, Power Electronics and Drives for Hybrid, Electric and Fuel Cell Vehicles is an important professional resource for practitioners

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and researchers in the battery, hybrid, and fuel cell EV transportation industry. The book is a structured holistic textbook for the teaching of the fundamental theories and applications of energy

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sources, power electronics,  
and electric machines and  
drives to engineering  
undergraduate and  
postgraduate students.  
Textbook Structure and  
Suggested Teaching  
Curriculum This is primarily

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an engineering textbook covering the automotive powertrain, energy storage and energy conversion, power electronics, and electrical machines. A significant additional focus is placed on the engineering design,

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the energy for transportation, and the related environmental impacts. This textbook is an educational tool for practicing engineers and others, such as transportation policy

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planners and regulators. The modern automobile is used as the vehicle upon which to base the theory and applications, which makes the book a useful educational reference for our industry colleagues,

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from chemists to engineers.  
This material is also  
written to be of interest to  
the general reader, who may  
have little or no interest  
in the power electronics and  
machines. Introductory  
science, mathematics, and an



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inquiring mind suffice for some chapters. The general reader can read the introduction to each of the chapters and move to the next as soon as the material gets too advanced for him or her. Part I Vehicles and

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Energy Sources Chapter 1  
Electromobility and the  
Environment Chapter 2  
Vehicle Dynamics Chapter 3  
Batteries Chapter 4 Fuel  
Cells Chapter 5 Conventional  
and Hybrid Powertrains Part  
II Electrical Machines

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Chapter 6 Introduction to  
Traction Machines Chapter 7  
The Brushed DC Machine  
Chapter 8 Induction Machines  
Chapter 9 Surface-permanent-  
magnet AC Machines Chapter  
10: Interior-permanent-  
magnet AC Machines Part III

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Power Electronics Chapter 11  
DC-DC Converters Chapter 12  
Isolated DC-DC Converters  
Chapter 13 Traction Drives  
and Three-phase Inverters  
Chapter 14 Battery Charging  
Chapter 15 Control of the  
Electric Drive Part IV

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Basics Chapter 16

Introduction to

Electromagnetism,

Ferromagnetism, and

Electromechanical Energy

Conversion The first third  
of the book (Chapters 1 to  
6), plus parts of Chapters

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14 and 16, can be taught to the general science or engineering student in the second or third year. It covers the introductory automotive material using basic concepts from mechanical, electrical,

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environmental, and electrochemical engineering. Chapter 14 on electrical charging and Chapter 16 on electromagnetism can also be used as a general introduction to electrical engineering. The basics of

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electromagnetism,  
ferromagnetism and  
electromechanical energy  
conversion (Chapter 16) and  
dc machines (Chapter 7) can  
be taught to second year  
(sophomore) engineering  
students who have completed



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introductory electrical circuits and physics. The third year (junior) students typically have covered ac circuit analysis, and so they can cover ac machines, such as the induction machine (Chapter 8) and the

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surface permanent-magnet ac machine (Chapter 9). As the students typically have studied control theory, they can investigate the control of the speed and torque loops of the motor drive (Chapter 15). Power

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electronics, featuring non-isolated buck and boost converters (Chapter 11), can also be introduced in the third year. The final-year (senior) students can then go on to cover the more advanced technologies of the

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interior-permanent-magnet ac machine (Chapter 10).

Isolated power converters (Chapter 12), such as the full-bridge and resonant converters, inverters (Chapter 13), and power-factor-corrected battery

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chargers (Chapter 14), are covered in the power electronics section. This material can also be covered at the introductory postgraduate level. Various homework, simulation, and research exercises are

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presented throughout the textbook. The reader is encouraged to attempt these exercises as part of the learning experience.

Instructors are encouraged to contact the author, John Hayes, direct to discuss

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course content or structure.

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