

Access Free Hilliers  
Fundamentals Of Motor Vehicle  
Technology 5th Edition Book 1  
**Hilliers Fundamentals  
Of Motor Vehicle  
Technology 5th  
Edition Book 1 Bk 1  
By Hillier V A W**

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Fundamentals Of Motor Vehicle

**Hillier Alma 2004**  
Technology For Educators Book 1

**Paperback**  
Hillier A W Hillier

***Auto Repair For Dummies,  
2nd Edition***

***(9781119543619) was  
previously published as Auto***

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**Repair For Dummies, 2nd  
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**While this version features a  
new Dummies cover and  
design, the content is the  
same as the prior release  
and should not be**

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***considered a new or  
updated product. The top-  
selling auto repair  
guide--400,000 copies  
sold--now extensively  
reorganized and updated  
Forty-eight percent of U.S.***

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**households perform at least  
some automobile  
maintenance on their own,  
with women now accounting  
for one third of this \$34  
billion automotive do-it-  
yourself market. For new or**

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**would-be do-it-yourself  
mechanics, this illustrated  
how-to guide has long been  
a must and now it's even  
better. A complete  
reorganization now puts  
relevant repair and**

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***maintenance information  
directly after each  
automotive system  
overview, making it much  
easier to find hands-on fix-it  
instructions. Author Deanna  
Sclar has updated systems***

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***and repair information  
throughout, eliminating  
discussions of carburetors  
and adding coverage of  
hybrid and alternative fuel  
vehicles. She's also revised  
schedules for tune-ups and***



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oil changes, included driving  
tips that can save on  
maintenance and repair  
costs, and added new advice  
on troubleshooting problems  
and determining when to  
call in a professional

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***mechanic. For anyone who  
wants to save money on car  
repairs and maintenance,  
this book is the place to  
start. Deanna Sclar (Long  
Beach, CA), an acclaimed  
auto repair expert and***

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**consumer advocate, has  
contributed to the Los  
Angeles Times and has been  
interviewed on the Today  
show, NBC Nightly News,  
and other television  
programs.**

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***Smith's Fundamentals of  
Motorsport Engineering  
provides the ultimate guide  
to motorsport engineering  
and what to expect at the  
racetrack, with content to  
suit motorsport learners***

*Page 12/150*

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**from Level 3 up to degree  
level.**

***This book introduces the  
principles and practices in  
automotive systems,  
including modern  
automotive systems that***

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*incorporate the latest trends  
in the automobile industry.  
The fifteen chapters present  
new and innovative methods  
to master the complexities  
of the vehicle of the future.  
Topics like vehicle*

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***classification, structure and  
layouts, engines,  
transmissions, braking,  
suspension and steering are  
illustrated with modern  
concepts, such as battery-  
electric, hybrid electric and***

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***fuel cell vehicles and vehicle  
maintenance practices. Each  
chapter is supported with  
examples, illustrative  
figures, multiple-choice  
questions and review  
questions. Aimed at senior***



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**undergraduate and graduate  
students in  
automotive/automobile  
engineering, mechanical  
engineering, electronics  
engineering, this book  
covers the following:**

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***Construction and working  
details of all modern as well  
as fundamental automotive  
systems Complexities of  
operation and assembly of  
various parts of automotive  
systems in a simplified***

*Page 18/150*

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***manner Handling of  
automotive systems and  
integration of various  
components for smooth  
functioning of the vehicle  
Modern topics such as  
battery-electric, hybrid***

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**electric and fuel cell vehicles**  
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**figures, multiple-choice**  
**questions and review**  
**questions at the end of each**  
**chapter**  
**Illustrates basic procedures**

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***of repair, preventive  
maintenance, and  
troubleshooting together  
with instructions for such  
operations as fixing a dead  
horn, replacing a car's  
computer, and servicing***

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***drum brakes.***

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component-by-component survey  
of automobiles structured to  
support apprentice mechanics at*

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***school and in the workplace. This straight forward and engaging textbook has comprehensive chapters on engines, gearboxes, and the vehicle body, a clear description of electrical principles and systems. and a guide to the workplace and how to work safely***



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on it. Each chapter has a check list  
of typical service tasks, as well as  
detailed but easy explanations of  
operation. Auto mechanic students  
and apprentices as well as practical  
car enthusiasts will find this book  
very helpful. \* Learner-focused  
language and layout \* Clear

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*diagrams and cutaways \* Guide to  
tools \* Typical service tasks  
identified and described*

*An introductory text providing  
explanations of motor vehicle  
technology. Each chapter in the  
book takes the reader through the  
details of each component system,*

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*and also includes checklists for  
fault finding and maintenance, and  
a number of practical projects.*

*Fully updated and in line with latest  
specifications, this textbook  
integrates vehicle maintenance  
procedures, making it the  
indispensable first classroom and*

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*workshop text for all students of  
motor vehicle engineering,  
apprentices and keen amateurs. Its  
clear, logical approach, excellent  
illustrations and step-by-step  
development of theory and practice  
make this an accessible text for  
students of all abilities. With this*

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***book, students have information that they can trust because it is written by an experienced practitioner and lecturer in this area. This book will provide not only the information required to understand automotive engines but also background information that***

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*allows readers to put this information into context. The book contains flowcharts, diagnostic case studies, detailed diagrams of how systems operate and overview descriptions of how systems work. All this on top of step-by-step instructions and quick reference*

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*tables. Readers won't get bored  
when working through this book  
with questions and answers that aid  
learning and revision included.  
Written for students and practicing  
engineers working in automotive  
engineering, this book provides a  
fundamental yet comprehensive*

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*understanding of chassis systems  
and requires little prior knowledge  
on the part of the reader. It presents  
the material in a practical and  
realistic manner, using reverse  
engineering as a basis for examples  
to reinforce understanding of the  
topics. The specifications and*



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***characteristics of vehicles currently on the market are used to exemplify the theory's application, and care is taken to connect the various topics covered, so as to clearly demonstrate their interrelationships. The book opens with a chapter on basic vehicle***

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***mechanics, which include the forces acting on a vehicle in motion, assuming a rigid body. It then proceeds to a chapter on steering systems, which provides readers with a firm understanding of the principles and forces involved under static and dynamic***

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***loading. The next chapter focuses on vehicle dynamics by considering suspension systems—tyres, linkages, springs, dampers etc. The chapter on chassis structures and materials includes analysis tools (typically, finite element analysis) and design features that are used to***

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*reduce mass and increase occupant  
safety in modern vehicles. The final  
chapter on Noise, Vibration and  
Harshness (NVH) includes a basic  
overview of acoustic and vibration  
theory and makes use of extensive  
research investigations and  
practical experience as a means of*

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***addressing NVH issues. In all subject areas the authors take into account the latest trends, anticipating the move towards electric vehicles, on-board diagnostic monitoring, active systems and performance optimisation. The book features a***

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***number of worked examples and case studies based on recent research projects. All students, including those on Master's level degree courses in Automotive Engineering, and professionals in industry who want to gain a better understanding of vehicle chassis***

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**engineering, will benefit from this  
book.**

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engage those keen to learn the  
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enhance their understanding of  
the core concepts whilst  
keeping the straightforward  
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qualifications. As  
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become increasingly more

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complex and fundamental  
to the workings of  
modern vehicles,

understanding these  
systems is essential for  
automotive technicians.

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subject, this book will  
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knowledge, but will also  
assist experienced  
technicians in keeping  
up with recent  
technological advances.

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charts, quick reference  
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descriptions and step-by-  
step instructions. Case

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studies to help you put  
the principles covered  
into a real-life

context. Useful margin  
features throughout,  
including definitions,  
key facts and 'safety

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first' considerations.

This book is an  
introduction to

automotive engineering,  
to give freshmen ideas  
about this technology.

The text is subdivided

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in parts that cover all  
facets of the  
automobile, including  
legal and economic  
aspects related to  
industry and products,  
product configuration

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and fabrication

processes, historic

evolution and future

developments. The first

part describes how motor

vehicles were invented

and evolved into the

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present product in more  
than 100 years of  
development. The purpose  
is not only to supply an  
historical perspective,  
but also to introduce  
and discuss the many

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solutions that were applied (and could be applied again) to solve the same basic problems of vehicle engineering. This part also briefly describes the evolution

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of automotive  
technologies and market,  
including production and  
development processes.

The second part deals  
with the description and  
function analysis of all



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car subsystems, such as:

- vehicle body, •
- chassis, including
- wheels, suspensions,
- brakes and steering
- mechanisms, • diesel and
- gasoline engines, •

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electric motors,  
batteries, fuel cells,  
hybrid propulsion

systems, • driveline,  
including manual and  
automatic gearboxes.

This part addresses also

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many non-technical  
issues that influence  
vehicle design and  
production, such as  
social and economic  
impact of vehicles,  
market, regulations,

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particularly on  
pollution and safety. In  
spite of the difficulty  
in forecasting the paths  
that will be taken by  
automotive technology,  
the third part tries to

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open a window on the  
future. It is not meant  
to make predictions that  
are likely to be wrong,  
but to discuss the  
trends of automotive  
research and innovation

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and to see the possible  
paths that may be taken  
to solve the many

problems that are at  
present open or we can  
expect for the future.

The book is completed by

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two appendices about the contribution of computers in designing cars, particularly the car body and outlining fundamentals of vehicle mechanics, including

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aerodynamics,  
longitudinal  
(acceleration and  
braking) and transversal  
(path control) motion.

Diagnostics, or fault  
finding, is a



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fundamental part of an  
automotive technician's  
work, and as automotive  
systems become  
increasingly complex  
there is a greater need  
for good diagnostic

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skills. Advanced  
Automotive Fault

Diagnosis is the only  
book to treat automotive  
diagnostics as a science  
rather than a check-list  
procedure. Each chapter

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includes basic  
principles and examples  
of a vehicle system  
followed by the  
appropriate diagnostic  
techniques, complete  
with useful diagrams,

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flow charts, case  
studies and self-  
assessment questions.

The book will help new  
students develop  
diagnostic skills and  
help experienced

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technicians improve even  
further. This new  
edition is fully updated  
to the latest  
technological  
developments. Two new  
chapters have been added

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- On-board diagnostics  
and Oscilloscope

diagnostics - and the  
coverage has been  
matched to the latest  
curricula of motor  
vehicle qualifications,

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International Motor  
Vehicle qualifications  
such as C&G 3905; and  
ASE certification in the  
USA.

'An Introduction to  
Modern Vehicle Design'



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provides a thorough  
introduction to the many  
aspects of passenger car  
design in one volume.

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principles, the author  
builds up analysis

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aspects of vehicle and  
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component design.

Subjects of current  
interest to the motor  
industry, such as  
failure prevention,

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designing with modern  
materials, ergonomics  
and control systems are  
covered in detail, and  
the author concludes  
with a discussion on the  
future trends in

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automobile design. With contributions from both academics lecturing in motor vehicle engineering and those working in the industry, "An Introduction to

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"Modern Vehicle Design"  
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provides students with  
an excellent overview  
and background in the  
design of vehicles  
before they move on to  
specialised areas.

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books and books which  
focus on specific areas  
of the design process,  
this unique volume is

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essential for all  
students of automotive  
engineering. Only book  
to cover the broad range  
of topics for automobile  
design and analysis  
procedures Each topic

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written by an expert  
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with many years  
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experience of the  
automotive industry  
Sahara Handbook  
The Complete Avengers  
Theory and Practice



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Automobile Electrical  
and Electronic Systems  
This book addresses the  
hydrostatics and stability of ships  
and other floating marine structures -

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a fundamental aspect of naval architecture and offshore engineering for naval architects and marine engineers. It starts from the most basic concepts, assuming that the reader has no prior knowledge of the subject. By presenting the topic

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in a methodical and step-by-step manner, the book helps students to enhance their understanding, while also providing valuable guidelines for lecturers teaching related courses.

This eagerly awaited second edition

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of Heinz Heisler's Advanced Vehicle  
Technology is a comprehensive and  
thorough description of vehicle  
bodies and components. The  
second edition has been rigorously  
updated to provide additional  
material on subjects such as antilock

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braking, vehicle aerodynamics, tire  
tread design advances,  
electronically controlled anti-  
vibration engine mountings and  
transport refrigeration. Around 100  
new diagrams have been included to  
complement the text. Advanced

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Vehicle Technology 2nd edition's  
depth of coverage, detailed

illustrations and fluent and precise  
style are the outstanding features in  
this high quality student text. More  
quality artwork has been added to  
enhance and add value to the

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explanation given in the text 16 key  
topics have been updated to bring

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television series, provides cast list  
and plot summary for each episode,  
and includes interviews with the  
series' stars

This edition of the text covers the  
latest developments in automotive  
design, construction, operation,



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diagnosis, and service. The text integrates the new with the old, simplifying explanations, shortening sentences, and improving readability. Hundreds of illustrations cover new developments, especially those relating to the foreign

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automotive industry and federal laws governing automotive air pollution, safety, and fuel economy. The Tenth Edition contains two four-color illustrated sections. Many chapters end with vocabulary words and "think-type" review questions, in

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addition to the National Institute of Automotive Service Excellence (ASE) style of multiple-choice questions. For schools seeking program certification by the national Automotive Technicians Education Foundation (NATEF), the high-

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priority items from their diagnosis,  
service, and repair task lists have  
been included.

Automotive Systems

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Motor Vehicle Technology for

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Light Vehicles  
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all the underpinning  
knowledge (UPK) required for**

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**an NVQ level 2 in Vehicle  
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Systems. The text highlights  
Key Words and Learning  
Tasks to help understanding  
of all the important issues.  
Completion of the Learning  
Tasks is an ideal way of**

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**building evidence for  
inclusion in portfolios. Lots of  
diagrams, photos and tables  
are used, making the book  
easy to use. Most of the text  
covers motor vehicle  
technology, but detail about  
the industry and motor**

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**vehicle companies is also  
included.**

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understanding of the core  
concepts whilst keeping the  
straightforward approach that  
is much admired in this  
authoritative manual.  
The second edition of  
**Automobile Mechanical and  
Electrical Systems**

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through to the chassis and  
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*The powertrain is at the heart of vehicle design; the engine - whether it is a conventional, hybrid or electric design - provides*

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*the motive power, which is then managed and controlled through the transmission and final drive components. The overall powertrain system therefore defines the dynamic performance and character of the vehicle.*

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*The design of the powertrain has conventionally been tackled by analyzing each of the subsystems individually and the individual components, for example, engine, transmission and driveline have received*

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*considerable attention in  
textbooks over the past  
decades. The key theme of  
this book is to take a  
systems approach - to look  
at the integration of the  
components so that the whole  
powertrain system meets the*



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demands of overall energy  
efficiency and good  
drivability. Vehicle

*Powertrain Systems provides  
a thorough description and  
analysis of all the  
powertrain components and  
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*that the overall performance  
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*programmes for vehicle  
calculations are provided in  
the text. Key features:*

*Structured approach to  
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vehicle design *Emphasis on*  
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MATLAB (R) programmes for the  
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*This comprehensive and  
integrated analysis of  
vehicle powertrain  
engineering provides an  
invaluable resource for  
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