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advanced technology,  
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vehicle and battery  
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work describes  
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vehicles deployment  
on the steady state  
and dynamic  
operation of  
electricity grids,  
identifies strategies to  
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architectures, as well  
as the communication  
infrastructure

required to integrate  
electric vehicles as  
active demand are  
presented. Finally,  
regulatory issues of  
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development philosophy, Bhutan is striving to pursue its economic growth while committing to its core values of inclusive and green development. Even with robust economic growth rates, Bhutan ' s dependence on imports and hydropower revenues

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drives the country to search for self-reliant option to fuel the economy while further decarbonizing the economy. Electric vehicle is being explored as one of the key policies to introduce green mobility, reduce fossil fuel imports and put the country firmly on a green growth path.

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technology and  
resulting cost

decreases in the  
global market. This  
report aims to help  
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vehicles in its own  
context. It analyses a  
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of electric vehicles

from technical,  
market and financial  
feasibility to

consumer awareness  
and stakeholders '

capacity. It also

addresses several

policy questions

which are at the heart

of public debate such

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be pursued in the  
context of developing  
economies with  
different socio-  
economic  
characteristics and  
constraints compared  
to advanced  
economies. It will  
help readers better  
grasp the technical,  
financial, economic  
and social challenges  
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opportunities in  
initiating electric  
vehicles program and  
provide practical  
recommendations  
that will be useful for  
policy makers in  
designing their own  
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here. It is a multi  
billion business with  
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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

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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



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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

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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.

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Motoring the Future:  
VW and Toyota Vying  
for Pole Position

deals with the  
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products, production, leadership and technologies, as well as some thoughts on the future of the car. These two opponents vying for pole position could hardly be more different: Toyota, with a focus on manufacturing excellence, is dominant in its home market, the USA and

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south-east Asia,  
whereas VW, with its  
strategy of product  
excellence, leads in  
western Europe,  
Brazil and China.  
Industrial dominance  
will be important to  
them in the future,  
with both companies  
needing to master the  
next steps in product  
and manufacturing  
excellence. The race

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is by no means over, offering a deep insight into the challenges for carmakers moving away from fossil fueled combustion to alternative energy vehicles for the mass market. Major players are trying to answer the key question: How will the car of the future look? VW

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and Toyota now need to keep ambitious competitors at bay.

Timing is everything: US manufacturers are focused on their own revival; Korean and Chinese players are progressing surprisingly fast.

However, it looks like the battle for pole position will likely remain between

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economical, faultless  
and efficient battery  
production is a must  
today and is  
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cutting issues like  
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functional safety are  
further topics. Last  
but not least  
standards and  
transportation themes

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are the final chapters of the handbook. The different topics of the handbook provide a good knowledge base not only for those working daily on electrochemical energy storage, but also to scientists, engineers and students concerned in modern battery systems.

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sector, electric  
mobility links  
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despite the relevance  
of the topic, few  
publications have  
ever attempted to  
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electric mobility  
initiatives and  
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current initiatives and  
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technology and  
outlines the  
methodologies used  
to analyze and

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