

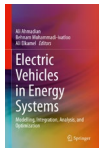
Electric Vehicles update: An online reading list from the IET Library



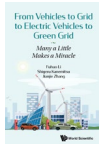
These eBooks and eJournals, available via the [IET Virtual Library](https://theiet.org/virtual-library), focus on the topic of electric vehicles, updating the previous reading list and covering charging, construction, design and other areas within this topic.

theiet.org/virtual-library

Ebooks (provided by EBSCO and Knovel)



Electric Vehicles in Energy Systems : Modelling, Integration, Analysis, and Optimization, Ali Ahmadian, Behnam Mohammadi-ivatloo and Ali Elkamel. (2020). This book discusses the technical, economic, and environmental aspects of electric vehicles and their impact on electrical grids and energy systems. The book is divided into three parts that include load modeling, integration and optimization, and environmental evaluation.



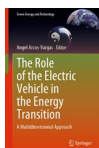
From Vehicles To Grid To Electric Vehicles To Green Grid: Many A Little Makes A Miracle, Fuhuo Li, Shigeru Kanemitsu and Jianjie Zhang. (2020). This book paves the way for a proper understanding of current and future issues on global warming, air pollution, depletion of natural resources, cyberattacks on smart grids, amongst others, by unifying various diverse disciplines of science to focus on a sustainable green society of the future.



Wireless Power Transfer for Electric Vehicles: Foundations and Design Approach, Alicia Triviño-Cabrera, José M. González-González and José A. Aguado. (2020). This book describes the fundamentals and applications of wireless power transfer (WPT) in electric vehicles (EVs). Wireless power transfer (WPT) is a technology that allows devices to be powered without having to be connected to the electrical grid by a cable.



The Fully Charged Guide to Electric Vehicles & Clean Energy. (2020). In The Fully Charged Guide to Electric Vehicles & Clean Energy, experts from around the globe explore how sustainable technology – everything from solar panels to wind turbines and electric vehicles – is getting cheaper, more effective and more available, and how by making everyday changes, we could see the 'big switch' in the coming decade.



The Role of the Electric Vehicle in the Energy Transition : A Multidimensional Approach, Angel Arcos-Vargas. (2021). This book explores the part that electric vehicles can play in reducing carbon dioxide emissions and the progress being made in making electric vehicles a viable alternative.



Electric Vehicles and the Future of Energy Efficient Transportation, Umashankar Subramaniam et al. (2021). This book is for policymakers, practitioners, engineers, technicians, researchers, academicians, and students looking for updated information on all aspects of electric vehicles.



Crash Safety of High-Voltage Powertrain Based Electric Vehicles : Electric Shock Risk Prevention, Chao Gong, (2022). This book systematically introduces fast winding-based discharge strategies used for permanent magnet synchronous machine-based drives in electric vehicles (EVs) after a crash.



Electric Vehicle Integration in a Smart Microgrid Environment, Mohammad Saad Alam and Mahesh Krishnamurthy. (2021). The primary purpose of this book is to capture state-of-the-art development in smart microgrid management with EV integration and their applications. and identify research directions.



The Science of Electric Vehicles : Concepts and Applications, Frank R. Spellman. (2023). This book examines the policies and economics pertinent to the move from hydrocarbon power to electric-powered vehicles and covers the history and development of electric vehicles.



Towards Human-Vehicle Harmonization, Huseyin Abut et al. (2023). This book features works from world-class experts from academia, industry, and national agencies focusing on a wide spectrum of automotive fields towards human-vehicle harmonization covering in- vehicle signal processing, driver modeling, systems and safety.



AI for Cars, Josep Aulinas and Hanky Sjafrie. (2022). This book provides a brief guided tour through many different AI landscapes including robotics, image and speech processing, recommender systems and onto deep learning, all within the automobile world.

Ejournals (provided by EBSCO)

International journal of green energy. (Covers all aspects of energy and energy technologies, covering environmentally friendly energy technologies and systems, natural and alternative sources of energy, and advanced technologies for energy conversion and power generation.)

Journal of Mechatronics, Electrical Power & Vehicular Technology. (Publishes original research papers, review articles and case studies focused on mechatronics, electrical power, and vehicular technology as well as related topics.)

International Journal of Automotive Technology. (Covers all aspects of the field including thermal engineering, flow, structural & modal analysis, control, vehicular electronics, mechatronics, electro-mechanical engineering, optimum design methods, ITS and recycling.)

Automotive Logistics. (Features, reports, interviews & news of the partnerships & developments in vehicle logistics globally.)

Automotive Design and Production. (Covers the interrelationships between automotive product development and manufacturing processes.)



Further resources from the IET

- [Communities and Networks](#)
- [Electrical Vehicles Guidance and Codes of Practice](#)
- [Factfiles](#)
- [IET Digital Library](#)
- [Technical Webinars](#)

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