

# IET Library Reading List: Electric Vehicles



These ebooks and ejournals, available via [the IET Virtual Library](https://theiet.org/virtual-library), focus on electric vehicles, covering charging, construction, design and other areas within this topic.

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# Ebooks (provided by EBSCO and Knovel)

**Hybrid Electric Vehicle System Modeling and Control (2nd Edition), Wei Liu. (2017).** Expands contents on Li-ion batteries detailing the positive and negative electrodes and characteristics and other components including binder, electrolyte, separator and foils and the structure of Li-ion battery cell. Includes a new section on multi-mode electrically variable transmission.

**Electric and Hybrid Vehicles - Power Sources, Models, Sustainability, Infrastructure and the Market, Gianfranco Pistoia. (2010).** Information on alternative vehicular power systems, encompassing advances in the rapidly evolving battery, hybrid and fuel cell technology domains.

**Electric Motors and Drives - Fundamentals, Types and Applications (4th Edition), Austin Hughes and Bill Drury. (2013).** Intended for non-specialist users of electric motors and drives, filling the gap between maths and theory-based academic textbooks and the more prosaic 'handbooks'.

**Electric Powertrain : Energy Systems, Power Electronics and Drives for Hybrid, Electric and Fuel Cell Vehicles, John G. Hayes and G. Abas Goodarzi. (2018).** The why, what and how of electric vehicle powertrain. Provides knowledge and skills required to engineer electric vehicle powertrain architectures, energy storage systems, power electronics converters and electric drives.

**Electric Vehicles in Energy Systems : Modelling, Integration, Analysis, and Optimization, Ali Ahmadian, Behnam Mohammadi-ivatloo and Ali Elkamel. (2020).** Discusses the technical, economic, and environmental aspects of electric vehicles and their impact on electrical grids and energy systems.

**From Vehicles To Grid To Electric Vehicles To Green Grid: Many A Little Makes A Miracle, Fuhuo Li, Shigeru Kanemitsu and Jianjie Zhang. (2020).** Provides a complete understanding of current and future issues on global warming, air pollution, natural resource depletion and smart grid cyberattacks by unifying scientific disciplines to achieve a sustainable, green society.

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

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

**Behaviour of Lithium-Ion Batteries in Electric Vehicles : Battery Health, Performance, Safety, and Cost, Gianfranco Pistoia and Boryann Liaw. (2018).** State-of-the-art research on developments in lithium-ion batteries for hybrid and electric vehicles. Summarises their performance, cost, service life, management, charging facilities and safety.

**Optimal Charging Control of Electric Vehicles in Smart Grids, Wanrong Tang and Ying Jun (Angela) Zhang. (2017).** Introduces optimal online charging control of electric vehicles (EVs) and battery energy storage systems (BESSs) in smart grids to minimise energy costs whilst reducing the fluctuation of total power flow.

# 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.)

**Energies.** (Covers topics related to energy sources & systems, including technology development, engineering, energy policy, and energy management.)

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