

Transportation update: An online reading list from the IET Library



These ebooks and ejournals, available via the [IET Virtual Library](#) have been selected to provide an introduction to the topic of transportation. This updates the previous reading list covering electric cars, railways, and transport networks.

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Ebooks (provided by EBSCO and Knovel)

Energy Efficiency in Air Transportation, Arturo Benito, and Gustavo Alonso. (2018). The book covers the consequences of energy use in terms of economics, environmental impact, and sustainable development, with a review of the existing and proposed regulatory measures addressing those factors.

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.

Automated Vehicles and MaaS : Removing the Barriers, Bob Williams (2021). A topical overview of the issues facing automated driving systems and Mobility as a Service, identifies the obstacles to implementation and offers potential solutions.

General Aviation Aircraft Design : Applied Methods and Procedures, Snorri Gudmundsson. (2022). This book provides design guidance for classes of aircraft, including seaplanes, biplanes, UAS, high-speed business jets, and electric airplanes, and is a source for answers to realistic aircraft design questions.

Racing Toward Zero : The Untold Story of Driving Green, Kelly Senecal and Felix Leach. (2021). This book explores the issues inherent in developing sustainable transportation and reviews topics such as propulsion systems, low-carbon fuels, vehicle options and alternative energy sources.

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.

Transport Systems : Modelling, Planning, and Evaluation, Milan Janic. (2017). This book describes the current and prospective state of the art analytical modelling, conceptual planning, and multi-criteria evaluation of selected cases of transport systems.

Common Rail Fuel Injection Technology in Diesel Engines, Ouyang Guangyao (2019). This book is a comprehensive examination of high-pressure common rail systems for electronic fuel injection technology, a crucial element in the optimization of diesel engine efficiency and emissions.

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.

AI for Cars, Josep Aulinas and Hanky Sjafrie. (2022). From pedestrian detection to driver monitoring to recommendation engines, the book discusses the background, research and progress being made in this area.

Design and Development of Aircraft Systems, Allan Seabridge and Ian Moir. (2020). This book is written for anyone who wants to understand how industry develops the customer requirement for aircraft into a fully integrated, tested, and qualified product that is safe to fly and fit for purpose.

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.

Ejournals (provided by EBSCO)

Transport. (Short reports and notes, reviews, reports about conferences and workshops on transportation.)

Transport reviews. (Covers all modes of transport with a focus on transport planning, economics, management, safety and sustainability.)

International Journal of Transport & Logistics. (Articles focus on the applied research in all fields of logistics and transport.)

Railway Age. (Articles, special reports, commentary, product and literature reviews, market and industry outlook and news on rail transport.)

International Railway Journal. (The latest news and analysis of the global railway industry.)

Journal of Mechatronics, Electrical Power & Vehicular Technology. (Publishes original research papers focused on mechatronics, electrical power, and vehicular technology.)

Air transport world. (Feature articles, special reports, business profiles, interviews, and commentary, in airlines and industries related to commercial air transport.)

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