

October 2024

Transport:

An online reading list from the IET Library



These eBooks and eJournals, available via the [IET Library](#), have been selected on the subject of transport. They cover topics such as automated vehicles, aviation and shipping.



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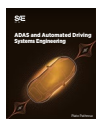
eJournals

eBooks

Automated vehicles



[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.



[ADAS and Automated Driving : Systems Engineering, Plato Pathrose. \(2024\).](#) Authored by an industry expert, this book explores systems engineering's crucial role in designing, safety- critical cyber-physical systems.



[Autonomous Vehicles and Virtual Reality : The New Automobile Industrial Revolution, Andras Kemeny. \(2024\).](#) This book concisely describes the technologies and cognition issues relevant to autonomous vehicles.

Aviation



[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.



[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.

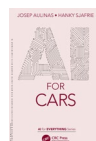


[Sustainable Aviation Technology and Operations : Research and Innovation Perspectives, Roberto Sabatini and Alessandro Gardi. \(2024\).](#) Provides an outlook of research advances in aeronautics and air transport, with emphasis on long-term sustainable development goals.

Cars



[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, and alternative energy sources.



[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.

Engines and Fuel



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.

Rail



Principles of Intelligent Rail Transit, Xiubin Zhang et al. (2023). This book systematically expounds on the scientific principles and technologies of Rail Transit Intelligent Technology based on the high development of artificial intelligence theory and technology.



Railway Planning, Management, and Engineering, V. Profillidis. (2022). This book aims to fulfil the need for a new scientific approach for railways. It is intended to be of use to railway planners, managers, economists, engineers, and students in engineering.

Shipping



Human-Centred Autonomous Shipping, Margareta Lützhöft and Jonathan Earthy. (2023). Tracing the development of autonomous and automated shipping from a hype of unmanned ships to a more realistic use of automation to augment humans in maritime operations.



Smart Port Management and Strategy, Nam-Kyu Park. (2022). Written from an operations management perspective with the aim of providing technical knowledge to readers on how to use technology for optimizing port performance.



Ship Sensors : Conventional, Unmanned and Autonomous, R. Glenn Wright. (2024). This book provides insight into the present and future of sensor architectures and configurations that can enhance vessel performance and further improve the safety of navigation.



Smart Ships, Yang Xiao and Tieshan Li. (2022). Provides state-of-the-art approaches and novel technologies for smart ships, covering a range of topics in these areas.

Transport systems



Smart Mobility : Using Technology to Improve Transportation in Smart Cities, Bob McQueen et al. (2024). An easy-to-understand resource that will help readers comprehend the state- of-the-art progress in this important and rapidly developing industry.



Towards Human-Vehicle Harmonization, Huseyin Abut. (2023). The essays collected in this volume present studies on safety, infrastructure, and human-to-vehicle interfaces.

eJournals

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.)

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.)