

October 2025

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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eBooks

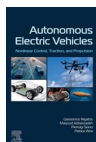
Automated vehicles



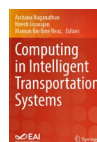
[Explainable Artificial Intelligence for Autonomous Vehicles: Concepts, Challenges, and Applications, Kamal Malik et al. \(2025\)](#). Provides a comprehensive guide to explainable AI in autonomous vehicles.



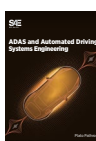
[Vehicle Computing, Sidi Lu and Weisong Shi. \(2024\)](#). Explores connected vehicles as mobile computing platforms, addressing challenges, business models, and real-world applications.



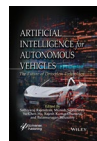
[Autonomous Electric Vehicles: Nonlinear Control, Traction, and Propulsion, Gerasimos Rigatos et al. \(2025\)](#). Explores advanced control, traction, and propulsion methods for autonomous electric vehicles.



[Computing in Intelligent Transportation Systems, Archana Naganathan et al. \(2024\)](#). Explores computing applications in smart transportation and autonomous vehicles.



[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.



[Artificial Intelligence for Autonomous Vehicles: The Future of Driverless Technology, Sathiyaraj Rajendran et al. \(2024\)](#). Explores AI applications in autonomous vehicles and solutions for safe and reliable driverless transportation.



[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



[Practical Aviation Security: Predicting and Preventing Future Threats, Jeffrey Price and Jeffrey Forrest. \(2025\)](#). Provides comprehensive guidance on aviation security with case studies and practical strategies for preventing and mitigating risks.



[Fundamentals of Sustainable Aviation, Eva Maleviti. \(2024\)](#). Provides a systems-based overview of sustainability in aviation.



[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.



[Aviation Mechanic Oral & Practical Exam Guide, Keith Anderson. \(2024\)](#). Prepares aviation mechanic applicants for FAA certification exams, covering practical skills, knowledge requirements, and risk management in a question-and-answer format.



[Sustainable Aviation Fuels: Transitioning Towards Green Aviation, Joachim Buse. \(2024\)](#). Explores the shift to carbon-neutral air transport through sustainable aviation fuels.

Rail



Smart Traction Power Supply Systems for High-speed Railways, Shibin Gao and Zhengqing Han. (2025). Examines smart and energy-efficient traction power systems for modern railways.



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.

Shipping



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.



Blue Economy and Smart Sea Transport Systems: Maritime Security, Girish Chandrakant Gujar and Adolf K. Y. Ng. (2023). Examines maritime security and the concept of the Blue Economy in the Indian Ocean region.

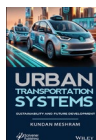
Transport systems



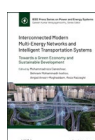
Smart Mobility : Using Technology to Improve Transportation in Smart Cities, Bob McQueen et al. (2024). An easy-to-understand resource that will help readers comprehend the state-of-the-art progress in this important and rapidly-developing industry.



A Pathway to Safe, Smart, and Resilient Road and Mobility Networks: The Future of Roadways: Green, Equitable, and Integrated, Amin Akhnoukh et al. (2024). Presents research and case studies on safe and sustainable road infrastructure.



Urban Transportation Systems: Sustainability and Future Development, Kundan Meshram. (2024). Discusses modern approaches to urban transport and environmental impact assessments for sustainable infrastructure development.



Interconnected Modern Multi-Energy Networks and Intelligent Transportation Systems: Towards a Green Economy and Sustainable Development, Mohammadreza Daneshvar et al. (2024). Introduces multi-energy networks and intelligent transportation systems.

eJournals

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

Transportation. (Focused on the formulation of policy, the preparation and evaluation of plans, and the day-to-day operational management of transport systems.)

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.)