



TRANSPORT SYSTEMS

ENGINEERING, SCIENCE AND TECHNOLOGY AREA

The library-rooms devoted to **Transport Systems**, Engineering, Science and Technology are finalised to collect and preserve all volumes (nearly **4200 in 2023**) aimed at fulfilling the contents of the *academic scientific-educational field* named "**Transport systems**", within the **Engineering area**, according to its contents within the existing legislation in Italy:

All those **subjects** aimed at the comprehension of the passenger transport and travel phenomena as well as of freight transport and related logistics are included. This implies the study and knowledge of: performance of transport components, installations and systems; the configuration of the optimal or most suitable transport system from the technological, functional, economical and financial viewpoint as well as for the land and energy use that it implies, the environmental aspects, the active and passive safety and the comfort of transported people; the management and operation of transport systems.

The library includes therefore all those volumes concerning *methods and techniques for simulating the transport and travel demand*, the *transport supply*, the interaction between *demand and supply*, the *impacts* on the economics, on the land and energy use, on the environment and safety (accidents); the short and long term (strategic) transport *planning*; the regulation and control of transport systems; the *engineering and design* of the components, installations and complex transport systems, also in relation with the specific technologies used within different transport means; the design, management, operation of *transport services*; the *intelligent transport systems*, with reference to the integration and the application - within transport systems and related components - of electronics, information and communication technologies.

With these purposes in mind, all mentioned themes - therefore the volumes of the library - have been classified according to the following **subjects**, to which apposite labelled bookshelves correspond inside the library-rooms:

- A Railways and rail transport
- B Road transport
- C Air transport
- D Maritime transport
- E Inland navigation and transport by inland waterways
- F Transport by pipelines
- G Multimodal and Intermodal transport
- H Constructions, materials and relate tests
- I Industrial installations, material handling and logistics
- J Organisational management, microeconomics and marketing
- K Transport vehicles, components and locomotion mechanics
- L Linear infrastructures (bridges, roads, railways lines and the like)
- M Punctual infrastructures (freight villages/logistics centres, terminals, parking areas and the like)
- N Transport economics e transport politics
- O Transport planning and land use
- P Automatics and transport telematics (ITS, Intelligent Transport Systems)
- Q Maths, statistics, evaluation techniques
- R Transports and the environment, environmental impact assessment
- S Safety and quality; road safety, accidents
- T Freight transport (in general)
- U Public transport, innovative transport systems and automated people movers
- V Traffic theory and circulation, related models

- W Control e regulation systems, power supply
- X Various publications by the Politecnico di Torino (yearly publications, handbooks, Statutes,...)
- Y Rope transport installations and systems, with related traction means
- Z Manuals, dictionaries, software manuals and lists of publications

The library includes the collection of periodicals and, in some cases, the related bounded tomes, of some out the main journals and reviews published in the field, among which we may quote: *Transportation Research - C (Emerging technologies)*, *Transportation Research - E (Logistics and transportation)*, *IET- ITS (Intelligent Transport Systems)*, *Public transport international*, *Recherche - Transports – Sécurité (RTS)*, *Revue générale des chemins de fer*, *Traffic Engineering & Control (TEC)*, *Transportation*, *ATA*, *International Journal of Transport Economics*, “*Trasporti e Territorio*” (*Transport and the Territory*), “*Ingegneria Ferroviaria*” (*Railway Engineering*), *Elevatori/European Elevator magazine*, “*Quota Neve*” (journal on rope transport installations and systems), “*Codice della Strada e Motorizzazione*” (Highways code and road signs, motorisation), “*Tecnica Professionale*” (technical journal on railway systems and trains).

A number of other journals and magazines - not included within the on-line cataloguing - concerning public transport, transport telematics (ITS), freight transport and logistics, together with records on traffic and transport data and the like, are available as well.

The complete collection, nearly unique in Italy, of all the following bounded volumes, is outlined:

- “*Rivista tecnica delle Ferrovie Italiane*”, i.e. “*Technical review of Italian railways*” (previous title of *Ingegneria Ferroviaria* / *Railway Engineering*), since 1912 (Year 1, volume 1) until 1941, without interruptions;
- *Ingegneria Ferroviaria* / *Railway Engineering* since 1948 until today, with the exception of years 1951 and 1952.

The search of articles published inside “*Ingegneria Ferroviaria*” / *Railway Engineering* can be made on line:

<https://www.cifi.it/ricerca-articoli-ingegneria-ferroviaria/>

through the web site of “*CIFI*”, “*Ricerca articoli*”, “*Ingegneria Ferroviaria*” or <http://www.ingegneriaferroviaria.it/web/>



Figura 1. The library room of DIATI-Transport Engineering: on the bottom right, the older library, all the other pictures refer to the new one (since 2012), with volumes and journals inside the room, with a table for working; magazines or journals inside apposite areas; aerosol fire extinguishing system

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October 2023