

# Rail Human Factors: Supporting the Integrated Railway



In recent years, for reasons connected to the organization of the industry, technical developments, and major safety concerns, rail human factors has grown in importance at an international level. Despite its importance, however, supporting literature has been largely restricted to specialist journal publications and technical reports. Rail Human Factors addresses this imbalance by providing the first fully comprehensive overview of the area. The volume includes contributions from leading ergonomists, psychologists, sociologists, management scientists and engineers whose common theme is to investigate, understand and design for people on the railways, including staff, passengers and the general public. Every area of ergonomics/human factors is covered: physical design of work and equipment in maintenance; cognitive ergonomics in driving, signalling and control; organizational and social ergonomics in the way teams are formed, plans are made and organizations are structured and run. Topics covered include: Systems views of rail human factors Driver models and performance Train and cab design Network and train control systems, including ERTMS Signals and signal SPADS Signalling and control center design Signaller performance Control center

interfaces  
Workload, situation awareness,  
team working  
Human error  
and reliability  
Timetabling and planning  
Maintenance planning and work  
Safety climate and  
safety culture  
Passenger  
comfort and behaviour  
Station design  
Public  
information systems  
Level crossings  
Trespass and vandalism  
Ergonomics  
standards and guidelines  
Human Factors integration  
The book is the definitive guide for all those concerned with making railways safer, more reliable, of higher quality and more efficient. It will be essential reading for policy-makers, researchers and industry around the world.

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