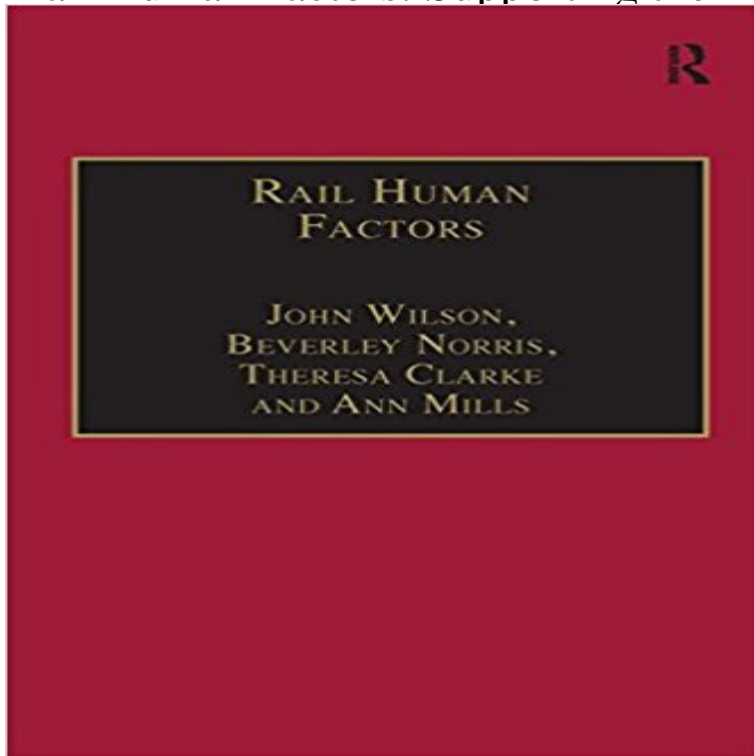


Rail Human Factors: Supporting the Integrated Railway



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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