

The Metro Railways Operation And Maintenance Act

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this book addresses the current development status of high speed railways globally and analyzes their operational schemes and practices under emergent conditions it covers methods and problem solving philosophy with regard to complexity analysis capacity evaluation passenger flow forecasts operating strategies passenger flow allocation resource allocation and supporting technologies in the context of serious accidents and adverse environmental influences on train operation and service organization of high speed railways the abnormal scenarios emergent conditions adverse events and corresponding theoretical and applicational solutions dealing with the train operation both in line and network scale are all from real world cases related to and designed for chinese high speed railway network which is the largest in scale the highest in complexity and the most difficult in tackling with the complex and diverse climate and geographical environment and thus makes the book both theoretically rigorous and practically applicable it not only helps readers consider the train and network interactions from the perspective of complexity science but also provides them with a philosophical framework and approaches available to construct their own roadmap and problem solving paradigms in their daily research or management this book is suitable for researchers postgraduates

and managerial and engineering practitioners in railway related fields especially in high speed railway operation and emergency management

safety theory and technology of high speed train operation puts forward solutions for train dispatching and signal control frequent railway incidents have threatened the safety of rail transport in 2013 more than 12 trains collided in the same year a spanish train derailed due to speed and two of china s high speed trains collided in 2016 germany and italy both experienced serious train collisions global railway security is essential many accidents are caused by train dispatching errors and signal system failure chinese high speed railway has developed very quickly and at a very large scale however many issues reagrding safety has not been addressed this book considers the issue from the perspective of a system a train operation control system structure is put forward in order to ensure safety five key technologies namely system level fail safe parallel monitoring completeness of train control data data sharing and fusion and prevention of common errors in monitoring are proposed in order to prevent collision over speed derailment and rear end collision accidents the concept and corresponding parallel monitoring technology of five core control items train route speed tracking interval temporary speed limit train running state is proposed puts forward solutions for train dispatching and signal control views high speed train safety and technology from a systems theory perspective describes five key technologies to ensure safety proposes five parallel monitoring technologies to prevent collision over speed derailment and rear end collision incidents considers the very quick and large scale development of chinese high speed rail

this book is closely related to the energy conservation problem of rail transport systems focusing on reducing the energy consumption of train operation the system process of train operation is analyzed and the relationship between train operation and energy

consumption is introduced the fundamental theories modelling and application of technologies for energy efficient train driving are presented discussing timely topics such as energy efficient train control and timetabling integrated timetabling and regenerative braking and maximizing regenerated energy usage with energy storage systems in addition the modelling and application of a traction power simulation platform is introduced to calculate the detailed energy flow over a railway network the book is enriched with a set of practical examples to illustrate the performance of the proposed methods in improving energy efficiency of both urban and long distance trains overall the book provides a timely guide to professionals in the railway industry and to researchers and graduate students in transport electrical and control engineering

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