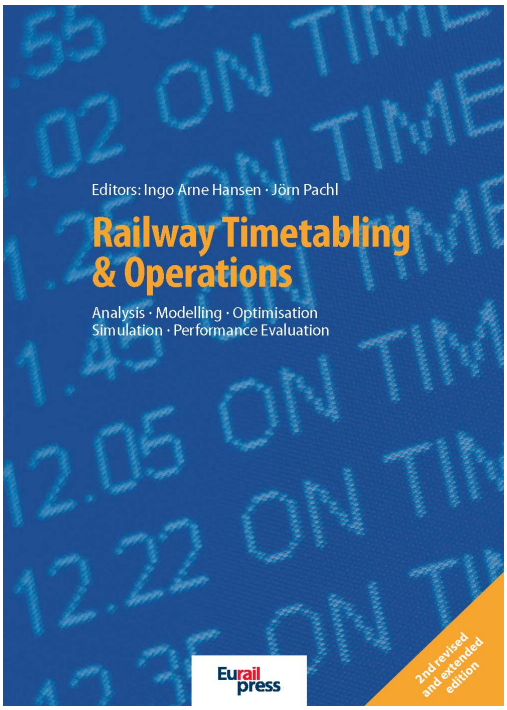

Railway Timetabling & Operations

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This is an updated, revised and extended edition of ‘Railway Timetable & Traffic’, published in 2008. It describes the state-of-the-art methods of railway timetabling and optimisation, capacity estimation, train operations analysis and modelling, simulation, rescheduling and performance assessment. The intention is to stimulate their broader application in practice and to highlight current and future research areas. The book is directed at academics, Masters and PhD students, as well as professionals from the railway industry. It will also be of interest to the public authorities that tender, monitor and perhaps fund railway service provision. The overall aim is to improve the attractiveness and efficiency of the train services which can be offered to the public. The key to achieving a higher efficiency and quality of train operations is an awareness of the impact of availability, reliability and robustness of the subsystems on train processes. A deeper insight into the probability of incidents and the propagation of train delays depends on a thorough analysis of real world railway operations and the feedback obtainable. This leads to an optimisation of the timetable and a network-wide improvement in traffic management performance. This...

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