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Aleksander Śładkowski *Editor*

# Transport Systems and Delivery of Cargo on East— West Routes

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*Editor*  
Aleksander Śladkowski  
Faculty of Transport  
Silesian University of Technology  
Katowice  
Poland

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# Potential and Problems of the Development of Speed Traffic on the Railways of Uzbekistan

Saidburkhan Djabbarov, Makhamadjan Mirakhmedov  
and Aleksander Śladkowski

**Abstract** The chapter deals with the features of the organization of high-speed train traffic on existing Uzbek railways. The possibility of preserving and increasing the carrying capacity of high-speed railways with the combined movement, of freight and passenger trains, as well as the influence of speed traffic on the construction and technological parameters of individual parts and structural elements infrastructure of the railway, from the position of ensuring traffic safety at high-speed railways of Uzbekistan is analyzed in the article. The results of the research can be useful in studying, designing and operating a railway track of high-speed roads under similar conditions.

**Keywords** Railway track · Train speed · High-speed train traffic  
Modeling · Construction and technological parameters · Aerodynamic velocity  
field

## 1 Basics of the Development of High-Speed Traffic in Uzbekistan

In the conditions of constant and rapid growth of population mobility, the possibility of their more active and unhindered movement, the problem of choosing the most reliable, convenient and economical means of transport arises.

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S. Djabbarov (✉) · M. Mirakhmedov  
Tashkent Railway Engineering Institute, Adylhodjaev 1, 100167 Tashkent, Uzbekistan  
e-mail: saidhon\_@inbox.ru

M. Mirakhmedov  
e-mail: mirakhmedovm@mail.ru

A. Śladkowski  
Department of Logistics and Aviation Technologies, Faculty of Transport,  
Silesian University of Technology, Krasińskiego 8, 40-019 Katowice, Poland  
e-mail: aleksander.sladkowski@polsl.pl