عنوان مقاله:

Time Consumption Modeling of Planning Vertical Profile of High-Speed Railways

محل انتشار:

سومین کنفرانس بین المللی پیشرفتهای اخیر در مهندسی راه آهن (سال: 1392)

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خلاصه مقاله:

Recent years, High-Speed railway has become a hot topic of railway development. Many countries in the world have built relatively complete high-speed railway networks.Each of them enjoys its own efficient traffic organization system and method, as well as a theory of station distribution layout. Based on the railway traffic conditions in China, the designer is adopting special procedure for building high speed railway especially in the congestion traffic area. One of procedure steps is separating between passengers and freights lines. The combined of high speed railway station with traffic, passing capacity and travel speeds for various types of train, is the aim of most present studies. How to align the distribution layout of the stations developed during the high-speed railway construction process with unique traffic organization model, sectional passing capacity, and travel speeds of various types of trains has attracted great attentions at present. This study calculates time consumption depending on the different gradients sections between two following stations. The result is found a model for time consumption for six vertical profiles. The model is presented as a quadratic function for each profile. The model result shows that time consumption increases with the .increasing of gradient value

کلمات کلیدی:

High-speed Railways, Vertical Profile, Travel Time