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The Road Traffic Analysis Based on an Urban Traffic Model of the Circular Working Field

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摘要　　Under a relatively realistic model, this paper theoretically

analyzes the road traffic status inside an urban working field,

including its radial roads and circular ones. Concretely, the radial

and the circular average traveling distances of a car commuter in a

tiny ring with wide ${d}x$ are first derived, and then the

necessary road area, road area rate distributions, the proportion

between the radial and the circular roads to be needed are also

calculated. The results presented here and the properties shown through

the numerical analysis are considered to be significant at the very

beginning stage of designing an urban city.

关键词　　Average traveling distance, Road area, Commutation, Working field

分类号

Abstract

Key words

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