

The Study on Lane Width Analysis Model in Urban Area

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ABSTRACT

The objective of the study is to construct lane width analysis models for main lines in urban area. Because three vehicles sometimes may occupy two lanes in the road, the study constructs lane width analysis models to put bounds to the lane width in order to solve traffic problems, like low level of service, low travel speed and waste of land use ,etc.. In view of the above-mentioned, this research cuts in terms of driver's behavior characteristic and traffic engineering at first, and discuss whether the lane width that our country adopts is rational and suitable or not for driving characteristic of our country by objective and subjective methods separately. Moreover, this research construct the models by using theoretical basis and methods , like interval estimation, micro-traffic flow theory, questionnaire investigation, photograph to investigate, judgement of lane change and level of service. Finally, the models are applied to a real case of Chia yi. The proposing value of width of lane put forward through this research way is compared with the lane width improved in reality, the result shows that the interval value of the lane width where this research puts forward is really feasible.

Keyword: Urban area, lane width, analysis model