综述评论

交通流理论的研究进展

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摘要 交通难已成为困扰大中城市发展的普遍问题,亟待发展有效的交通流理论来指导这一问题的解决。本文从交通流的动力分析和交叉口延滞模型两大方面评介交通流理论研究进展和现状,列举了有关的数学、力学模型,分析了它们的效用与不足之处。

关键词 <u>交通流</u> <u>数学模型</u> <u>动力分析</u> <u>连续介质力学</u> <u>概率分析</u> <u>排队论</u> <u>交叉口延滞</u> 分类号

PROGRESS IN THE STUDY OF TRAFFIC FLOW THEORY

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Abstract

Traffic difficulties have become a general perplexed problem in the development of large citics, so it is urgent to develop an effective theory of traffic floty in order to workout a solution of the problem. In this paper, the progress and up-to-date status of the investigation of traffic flow theory are reviewed in two main aspects, i.e., the dynamical analysis of traffic flow and the models describing junction delays. Various related mathematical and dynamical models are also listed and their validation and limi...

Key words <u>traffic flow</u> <u>mathematical modelling</u> <u>dynamical analysis</u> <u>continuum mechanics</u> <u>Probabilistic analysis</u> <u>queuing theory</u> <u>junction delay</u>

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