TRAFFIC CONFLICTS AT ROTARY INTERSECTIONS IN AMMAN, JORDAN

by

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ABSTRACT

The thesis presents results of an extensive traffic conflict field studies for rotary intersections in Amman, Jordan. The analysis of traffic conflict data show that the three main types of conflict namely lane change, sudden stop and violation for give way meet the sample size requirement for traffic conflict studies at rotary intersections. These three conflict types frequencies have been related to traffic flow parameters and roundabout geometry using stepwise multiple regression, factor analysis and canonical analyses. Equations are developed to enable roundabout conflicts to be predicted for use in design and appraisal. The investigation illustrates the features of the prediction models and includes a discussion of prediction.