## Determining of Saturation Flow of Controlled Intersections in Conditions of Damascus Streets Comparing Between Analytical- and Surveyed Results<sup>1</sup>

Hassan Alkhiami<sup>2</sup>

## **Abstract**

This research aims to be first step towards adjusted traffic analysis fitting the local traffic conditions of Damascus city.

At first, many theoretical methods according to different international references regarding determining of saturation flow are deeply discussed and studied.

A lot of surveys for obtaining directional volumes of traffic are achieved on some locations in Damascus streets network. The collected traffic- and geometrical Data are used by application of the analytical formulations according to the most famous international traffic code "Highway Capacity Manual 2000".

A saturation flow-survey is also performed on the same locations to obtain the local saturation flow in the real local conditions.

A comparison of the analytical calculations and surveyed values of the saturation flow is illustrated. An adjustment factor for improving the analytical calculation to fit the local conditions is suggested.

<sup>&</sup>lt;sup>1</sup> For the paper in Arabic see pages (7 -28).

<sup>&</sup>lt;sup>2</sup> Department of Transportation Engineering, Civil Eng. Faculty, Damascus University.