

# 號誌設計軟體Synchro 在台灣都市區域的適用性分析

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## 摘要

The main purpose of intersection signal control is to provide a safe, efficient, and comfort traffic environment. In addition, phase design and signal timing design are the most important issues. Synchro is a popular performance analysis and optimal timing design software for urban networks in the international signal design and simulation software packages. However, Synchro is developed in the foreign environment. The appropriateness of traffic analysis in Taiwan is doubtful. Therefore, this paper use a simulation software HTSS developed by the Institute of Transportation, Ministry of Transportation and Communications in Taiwan to conduct a compare analysis for the design results of Synchro. Two measures of effectiveness (the flow ration and V/C) are also used to evaluate the appropriateness of the timing plan designed by Synchro.

關鍵字：Intersection, Signal, Control, Software, Simulation。