

عنوان مقاله:

Determination of passenger car equivalent for Bus in urban roads using AIMSUN

محل انتشار:

کنگره بین المللی تحولات نوین پایداری در معماری، شهرسازی، عمران و مهندسی ساختمان (سال: 1395)

تعداد صفحات اصل مقاله: 9

نویسندگان:

Faez Shakibaei - Faez Shakibaei, MSc in Transportation Engineering, Department of Civil, Ayatollah Amoli Branch, Islamic Azad University, Amol, Iran

Gholamali Behzadi - Gholamali Behzadi, Assistant Professor of, Department of Civil, Ayatollah Amoli Branch, Islamic Azad University, Amol, Iran

خلاصه مقاله:

Passenger Car Equivalent (PCE) is applied to capacity analysis and demonstrate how many Passenger car, replacing to, maintain the effect of considered vehicle on traffic flow, without any change in road situation or traffic flow. Parameters and traffic systems are different from a country than other country, thus it is necessary to calibrate such parameters. One of these parameters is bus equivalent in urban roads. In, our country, because of shortage or lack of modern-based mass public transportation system including metro light rail way and high volume of urban travelling, urban public transportation system, has caused to highlight the role of bus usage as a public transportation vehicle with more occupancy rate, and take over the major rate of passengers relocation. Regarding of increasing the presence of such vehicle in traffic flow that is considered as a main policy to decrease demand, need to investigate the impact of this vehicle on roads capacity is increasing. This research aims at estimate the actual rate of bus PCE in urban roads. For this reason, the information of traffic and bus movement behavior has been collected by field study of two Line Street in Amol and simulated in three different scenario including mixed flow, free-bus flow and base flow using software AIMSUN. Through frequent analyzing data and compare road performance indicators such as density, headway and speed, the PCE was equivalent to 4.58 for bus.

کلمات کلیدی:

Passenger Car Equivalent, urban roads, Bus, simulation, AIMSUN

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/575793>

