

عنوان مقاله:

The Model of Estimating Air Pollution Due to Vehicles in the Urban Traffic

محل انتشار:

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خلاصه مقاله:

Emission models are essential tools to estimate the emissions of atmospheric pollutants in a given area and they are a fundamental component of air quality management plan. Besides, they are required in order to provide inputs to air quality modeling and to assess the potential impacts of future programs and policies. Currently, there are some principal methods to estimate traffic emissions, which vary mainly in the way that they treat the interaction between vehicle operation and the corresponding emissions. The vehicle emission model presented in this paper follows the methodology for obtain an emission inventory of emissions from road traffic. A vehicle emission model has been developed in order to estimate spatially desegregated emissions (highway, roads and streets) from road traffic using GIS, with a spatial resolution for each cell of 1x1 km², and temporal time-scales for the calculation of emissions on an annual, monthly, daily and hourly basis. The model takes into account the hot, cold and evaporative emissions and uses CORINAIR's emission factors. It considers the following pollutants: CO, NO_x (NO and NO₂), SO₂, particles and several VOC. This model has been applied to obtain the emission inventory for Tabriz for year 2013 from this source

کلمات کلیدی:

Vehicle Emission, Air Pollution, Urban Traffic, Hot Emission, Cold Emission

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