

عنوان مقاله:

Computational Modeling of Air Pollution

محل انتشار:

ششمین کنفرانس بین المللی مهندسی عمران (سال: 1382)

تعداد صفحات اصل مقاله: 10

نویسنده:

Goodarz Ahmadi - Department of Mechanical and Aeronautical Engineering, Clarkson University, Potsdam, NY 13699, USA

خلاصه مقاله:

Computational modeling of pollutant transport, dispersion and deposition is described. Particular attention is given to transport and deposition of contaminant particles in atmospheric flows around buildings, in street canyons and near bridges. The Eulerian-Eulerian and Eulerian-Lagrangian models are outlined. Particular attention was given to the use of advanced anisotropic turbulence models and a Lagrangian particle trajectory analysis. The procedure for simulating the instantaneous turbulence fluctuating velocity vector with the aid of random field model is described. Examples of dispersion and deposition of pollutants near buildings, in street canyons and near bridges are discussed. It is shown that the computer simulation can predict the features of the experimentally observed pollutant concentration data.

کلمات کلیدی:

Air pollution, Computer Model, Particle Trajectory

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1127>

