

# Atmospheric Diffusion Equation (ADE)

- ADE\* represents mass balance in which emissions, transport, diffusion, chemical reaction and removal processes are represented by:

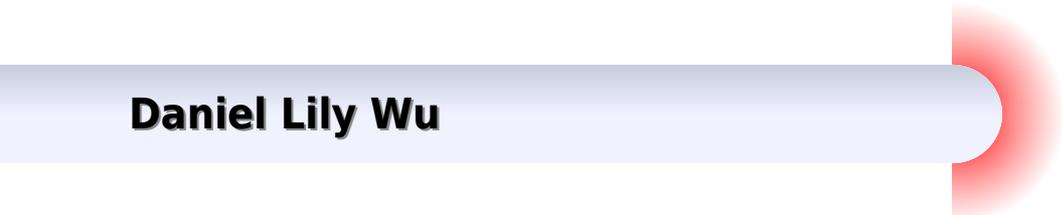
$$\frac{\partial C_i}{\partial t} + \frac{\partial(uC_i)}{\partial x} + \frac{\partial(vC_i)}{\partial y} + \frac{\partial(wC_i)}{\partial z} =$$

$$\frac{\partial}{\partial x} \left( K_H \frac{\partial C_i}{\partial x} \right) + \frac{\partial}{\partial y} \left( K_H \frac{\partial C_i}{\partial y} \right) + \frac{\partial}{\partial z} \left( K_V \frac{\partial C_i}{\partial z} \right) + R_i + S + L_i$$

\* Several assumptions included above

# Atmospheric Diffusion

**Daniel Lily Wu**



## **Atmospheric Diffusion:**

*Atmospheric Diffusion* F. Pasquill, F. B. Smith, 1983      *Atmospheric Diffusion and Air Pollution* François N.. Frenkiel, P. A.. Sheppard, 1959      **Review of Atmospheric Diffusion Models for Regulatory Applications** S. R. Hanna, 1982  
**Guideline for Fluid Modeling of Atmospheric Diffusion** William H. Snyder, 1981      **Theory of Large-scale Atmospheric Diffusion and Its Application to Air Trajectories** Samuel B. Solot, Eugene M. Darling, 1958  
**Atmospheric diffusion. 2nd edition** F. Pasquill, 1974      *Atmospheric Diffusion and Air Pollution* , 1959  
**Contemporary Problems of Atmospheric Diffusion and Pollution of the Atmosphere** M. E. Berliand, 1976  
*Air Pollution and Atmospheric Diffusion* M. E. Berliand, 1973 A Halsted Press book      **Atmospheric Diffusion** F. Pasquill, 1974 For meteorologists physicists engineers environmental scientists and advanced students in those subjects  
*Air Pollution Abstracts* , 1970      *Atmospheric Diffusion from Volume Sources* Franklin Andrew Gifford,      *Handbook on Atmospheric Diffusion* Steven R. Hanna, Gary A. Briggs, Rayford P. Hosker, 1982      *Symposium on Atmospheric Diffusion and Air Pollution of the American Meteorological Society* , 1974      *Diffusion and Transport of Pollutants in Atmospheric Mesoscale Flow Fields* A. Gyr, Franz-S. Rys, 1995-01-31 In regions as densely populated as Western Europe prediction of the ecological implications of pollutant transport are important in order to minimise damage in the case of accidents and to evaluate the possible influence of existing or planned sources In most cases such predictions depend on high speed computation The present textbook presents a mathematically explicit introduction in eight chapters 1 An introduction to the basics of fluid dynamics of the atmosphere and the local events and mesoscale processes 2 The types of PDEs describing atmospheric flows for limited area models the problem of appropriate boundary conditions describing the topographical constraints and well posedness 3 Thermodynamics of the atmosphere dry and wet its stability and radiation processes budgets and the influence of their sum 4 Scaling and similarity laws for stable and convective turbulent atmospheric boundary layers and the influence of inhomogeneous terrain on the advection and the vertical dispersion and the method of large eddy simulation 5 Statistical processes in turbulent dispersion turbulent diffusion and chemical reactions in fluxes 6 Theoretical modelling of diffusion and dispersion of pollutant gases 7 The influence of urban heat production on local climate 8 Atmospheric inversion layers and lapping inversion the stable boundary layer and nocturnal inversion      **Nuclear Science Abstracts** , 1966      *Environmental Protection Research Catalog: Indexes* Smithsonian Science Information Exchange, 1972      *Scientific and Technical Aerospace Reports* , 1968      **On the Theory of Atmospheric Diffusion in Fog Conditions** M. E. Berliand, R. I. Onikul, G. V. Ryabova, 1971 Study of cases of intense air pollution shows that a part of them is related to periods of extended fogs The harmful effect of smoke and gaseous admixtures is revealed more sharply in fog than in other weather conditions an unpleasant feeling from them is increased the presence of admixtures in fogs furthermore decreases the visibility etc One notes a reverse effect when the presence of smoke contributes to the

condensation of the atmospheric moisture In this manner a mutually increasing effect of smokes and fogs occurs The report presents the estimates of the influence of river fogs the theory of which is developed by Berliand and Onikul on the distribution of gaseous admixtures A New Atmospheric Diffusion Model Daniel Lily Wu,1976

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