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By S. Pal Arya



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*Air Pollution Meteorology and Dispersion* provides a concise yet thorough review of the basic theories, models, experiments, and observations of pollutant dispersal in the atmosphere. It offers the theoretical and empirical bases of frequently used dispersion models while emphasizing the limitations and uncertainties inherent in these models. Organized into twelve chapters, the material is presented in order of increasing difficulty. The first half of the book treats the basic tenets of air pollution modeling; the second half deals with the more detailed theoretical and observational aspects of dispersion. Sufficient background material on atmospheric structure, dynamics, and circulation systems and their importance to atmospheric dispersion is included for students who do not yet have a strong meteorological background. Turbulence and diffusion theories, such as gradient transport, statistical, and similarity theories, as well as analytical and numerical dispersion and air quality models, are also discussed. Problems and exercises are included in each chapter, making this an ideal text for undergraduate and graduate courses in atmospheric science and mechanical engineering.



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"Excellent and complete. Up-to-date." --Robert Burnstein,

### **About the Author**

S. Pal Arya is Professor of Meteorology in the Department of Marine, Earth, and Atmospheric Sciences at North Carolina State University, Raleigh. Well known for his research in the areas of environmental fluid mechanics, atmospheric boundary layer, turbulence and dispersion, he has published many articles in scientific journals. Arya is also the author of Introduction to Micrometeorology (1988) and chapters in other books on meteorology. He is a Fellow of the American Meteorological Society and American Association for the Advancement of Science and a member of the American Geophysical Union.

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