



# GIS Based Chemical Fate Modeling: Principles and Applications

By Alberto Pistocchi

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**GIS Based Chemical Fate Modeling: Principles and Applications** By Alberto Pistocchi

**Explains how GIS enhances the development of chemical fate and transport models**

Over the past decade, researchers have discovered that geographic information systems (GIS) are not only excellent tools for managing and displaying maps, but also useful in the analysis of chemical fate and transport in the environment. Among its many benefits, GIS facilitates the identification of critical factors that drive chemical fate and transport. Moreover, GIS makes it easier to communicate and explain key model assumptions.

Based on the author's firsthand experience in environmental assessment, *GIS Based Chemical Fate Modeling* explores both GIS and chemical fate and transport modeling fundamentals, creating an interface between the two domains. It then explains how GIS analytical functions enable scientists to develop simple, yet comprehensive spatially explicit chemical fate and transport models that support real-world applications. In addition, the book features:

- Practical examples of GIS based model calculations that serve as templates for the development of new applications
- Exercises enabling readers to create their own GIS based models
- Accompanying website featuring downloadable datasets used in the book's examples and exercises
- References to the literature, websites, data repositories, and online reports to facilitate further research
- Coverage of important topics such as spatial decision support systems and multi-criteria analysis as well as ecological and human health risk assessment in a spatial context

*GIS Based Chemical Fate Modeling* makes a unique contribution to the environmental sciences by explaining how GIS analytical functions enhance the development and interpretation of chemical fate and transport models. Environmental scientists should turn to this book to gain a deeper understanding of the role of GIS in describing what happens to chemicals when they are

released into the environment.

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### **About the Author**

**ALBERTO PISTOCCHI, MSc Eng, MSc Phil, PhD**, is Adjunct Professor of Spatial Decision Support Systems at the University of Trento, Italy, and the author of several scientific contributions to the fields of hydrology, environmental assessment, chemical fate and transport modeling, and spatial decision support systems. As a researcher, environmental analyst, and project manager, he has been working for the European Commission's Joint Research Centre, the Emilia Romagna regional government, and other private and public organizations. He is a founding partner (2001) and the scientific director of GECOsistema, a research spin-off from the University of Bologna, Italy.

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