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An air dispersion model simulates how air pollutants emitted by a source will disperse and react in the atmosphere to affect ambient air quality. Modeling is conducted utilizing specialized computer programs. Results are obtained using inputs including emissions data, stack information and meteorological data.

Air Dispersion Modeling by De Visscher, Alex (ebook)

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Atmospheric dispersion modeling is the mathematical simulation of how air pollutants disperse in the ambient atmosphere. It is performed with computer programs that include algorithms to solve the mathematical equations that govern the pollutant dispersion. The dispersion models are used to estimate the downwind ambient concentration of air pollutants or toxins emitted from sources such as industrial plants, vehicular traffic or accidental chemical releases. They can also be used to predict futu

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Air Dispersion Modeling: Foundations and Applications

Air dispersion modeling : foundations and applications / Alex De Visscher. Author De ... Preface List of Symbols Chapter 1 Introduction 1.1 Introduction 1.2 Types of Air Dispersion Models 1.3 Standard Conditions for Temperature and Pressure 1.4 Concentration Units in the Gas Phase 1.5 Units 1.6 Constants and Approximately Constant Variables 1.7 ...

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Offshore and Coastal Dispersion Model Version 5 (OCD) is a straight line Gaussian model developed to determine the impact of offshore emissions from point, area or line sources on the air quality of coastal regions. OCD incorporates overwater plume transport and dispersion as well as changes that occur as the plume crosses the shoreline.

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