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Nota di contenuto	Wind Flow and Vapor Cloud Dispersion at Industrial and Urban Sites; Contents; Preface; Acknowledgments; List of Symbols; 1 Introduction; 1.1. Background; 1.2. Objectives of This Book; 1.3. Overview; 1.4. Definition of Scenarios and Modeling Scales; 2 Overview of Meteorology and Atmospheric Dispersion; 2.1. Definitions of Concepts and Terms; 2.2. Engineering Background; 2.3. Survey of Currently Available Methods for Classifying Dispersion Coefficients for a Variety of Surface Types; 2.3.1. Introduction to Discussion of Efects of Surface Features 2.3.2. Use of a Simple Gaussian Dispersion Model to Undetstand the Efects of Roughness2.3.3. Situations Where Winds, Stability and Underlying Terrain Vary in Time and/or Space; 2.3.4. Methods for Accounting for Surface Roughness Length and Displacement Length in Dispersion Models; 2.4. Survey of Experiments Showing Effects of

Sommario/riassunto

A key component of risk reduction is reducing the potential consequences that could result from toxic or flammable releases. The science of vapor cloud dispersion has advanced significantly in recent years, but one of the long-standing challenges has been in accounting for dispersion around buildings, equipment, and similarly sized geologic and man-made features. With current concerns about terrorism in industrial and urban sites, improving consequence modeling within industrial and urban sites is more important than ever This new definitive book advances the science of vapor cloud dispersion