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Momentum and Buoyancy; 5.3. The Effect of Wind and Ambient Turbulence; 6. Low-Velocity Dense-Gas Releases; 6.1. Source Specification; 6.2. Source Area Region
6.3. Stably-Stratified Region6.4. Passive Dispersion Region; 7. Passive Dispersion; 7.1. The Mechanics of Turbulent Dispersion; 7.2. Passive Dispersion from Elevated Releases; 7.3. Near-Ground Passive Dispersion; 7.4. Dispersion Averaging Times; 8. Complex Flow Considerations; 8.1. Building Wakes and Stack Downwash; 8.2. Gravity-Driven Flows and the Effects of Terrain; 8.3. Aerosol Rainout; 8.4. Fanning Plumes and Subsidence; 9. Hazard Evaluations; 9.1. Chemical Toxicity; 9.2. Flammability; 10. Computer Models; References

Sommario/riassunto

A brief introduction to a complex topic, giving a description of the processes involved in an accidental or emergency release and the resulting downwind transport and dilution of gases, vapors, and aerosols.