

Abstract for ASHRAE HVAC Applications Handbook Chapter 46 *Control of Gaseous Indoor Air Contaminants*

Chapter 46, *Control of Gaseous Indoor Air Contaminants*, appears in the ASHRAE HVAC Applications Handbook. Its intent is both to help engineers to understand the processes that remove gaseous contaminants from air and to provide information that enables engineers to design and specify gaseous contaminant air cleaners for HVAC systems.

The principal gas removal processes, physical adsorption and chemisorption, are characterized and their terminology explained. Sample source emission data is shown with advice on using it to predict contaminant concentrations in buildings. Information is given on selecting the removal processes appropriate for different contaminant types and occupied spaces and on sizing duct-mounted gaseous air cleaners.

The chapter also covers air-cleaning system design, installation, start-up, commissioning, safety issues, operations and maintenance, and methods of test for efficiency and service life.