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Nota di contenuto	Odour Impact Assessment Handbook; Contents; List of Contributors; Preface; Glossary and Abbreviations; 1 Introduction; 1.1 Origin and Definition; 1.2 Quantifying Odour; 1.3 Effects of Odour; 1.4 Odour Impact Assessment Approaches; References; 2 Odour Characterization and Exposure Effects; 2.1 Attribute Descriptors; 2.1.1 Concentration; 2.1.2 Perceptibility or Olfactive Threshold; 2.1.3 Intensity; 2.1.4 Diffusibility; 2.1.5 Quality or Character; 2.1.6 Hedonic Tone or Offensiveness; 2.2 Chemistry and Odours; 2.2.1 Vapour Pressure; 2.2.2 Water Solubility; 2.2.3 Chemical and Biological Oxidation 2.3 Odorous Compounds, Thresholds and Sources 2.4 Public Health Relevance of Odour Exposure; 2.5 Odour Annoyance and Nuisance; 2.5.1 Odour Exposure; 2.5.2 People Response; 2.5.3 Sensitivity of Receptors; References; 3 Instruments and Methods for Odour Sampling

and Measurement; Sections 3.1-3.4; 3.1 Introduction; 3.2 Sampling Techniques; 3.2.1 Regulations and Guidelines; 3.2.2 General Aspects; 3.2.3 Sampling Program; 3.3 Measurement of Odorous Substances; 3.3.1 Gas Chromatography and Mass-Spectrometry (GC/MS); 3.3.2 Colorimetric Tubes; 3.3.3 Portable Multi-Gas Detectors; 3.3.4 Gas Analysers

3.4 Determination of Odour Concentration by Dynamic Olfactometry

3.5 Determination of Odour Concentration by the Triangular Odour Bag Method; 3.5.1 Equipment and Apparatus; 3.5.2 Panel; 3.5.3 Timing for the Sensory Test; 3.5.4 Procedures of the Sensory Test; 3.5.5 Quality Control Framework; 3.6 Estimation of Emission Rate; 3.6.1 Point Sources; 3.6.2 Area Sources; 3.6.3 Volume Sources; 3.6.4 Odour Emission Capacity; 3.7 Measurement of Odour Exposure by Field Assessment; 3.7.1 Field Inspection; 3.7.2 Community Surveys; 3.7.3 Odour Diaries; 3.7.4 Plume Measurement

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6.2 Regulation Based on Air Quality Standards and Limit Values

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## Sommario/riassunto

Odours have become a priority concern for facility operators, engineers and urban planners who deal with waste and industrial treatment plants. The subjectivity of smell perception, its variability due to frequency and weather conditions, and the complex nature of the substances involved, has long hampered the regulation of odour emissions. This book provides a comprehensive framework for the assessment, measurement and monitoring of odour emissions, and covers: Odour characterization and exposure effects  
Instruments and methods for sampling and measurement

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