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## Conclusions; References

5. Implementation of the European Solvent Directive (1999/13/EC)5.1. Introduction; 5.2 Information exchange platform as a part of the implementation of the EU Solvent Directive; 5.3 Decision support through mass and energy flow management in the sector of vehicle refinishing; 5.4. Further use of mass and energy flow models; 5.5. Conclusion; References; 6. Integration of biological techniques for air pollution control into sustainable development; 6.1. Introduction; 6.2. VOC control, the case for avoiding unnecessary CO<sub>2</sub> emissions; 6.3. High-rate biotrickling filters for H<sub>2</sub>S control  
6.4. Concluding remarksReferences; Part II: Characterization of waste gases; Section IIA: Waste gases analysis; 7. Characterization of pollutants in gases; 7.1. Introduction; 7.2. Characterizing atmospheric pollutants; 7.3. Monitoring and analysis; 7.4. Effects; 7.5. Conclusions; References; 8. Isotope characterization of gaseous pollutants; 8.1. Introduction; 8.2. Isotope abundance variations; 8.3. Isotope mass balance; 8.4. Conclusion; References; 9. Use of NMR to study in situ bioconversion of gaseous formaldehyde; 9.1. Introduction  
9.2. In situ NMR study of bioconversion of gaseous compounds9.3. NMR study of formaldehyde bioconversion; 9.4. Conclusion; References; Section IIB: Waste gases characteristics; 10. Heavy metal release in waste incineration processes; 10.1. Introduction; 10.2. Thermodynamic study; 10.3. Characterisation of ultimate residues; 10.4. Kinetics of HM vaporisation; 10.5. Conclusion; References; 11. Functional interpretation of gas composition; 11.1. Introduction; 11.2. Sources of volatile organic compounds; 11.3. Analysis of NMVOCs; 11.4. NMVOC emission rates  
11.5. Differentiating processes using the NMVOC profile

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## Sommario/riassunto

LTE (Long Term Evolution) is the 3GPP's (3rd Generation Partnership Project) new standard and accompanying technologies that mobile network operators such as ATT, Verizon and TeliaSonera are adopting for their networks. To move to higher-speed networks that can cater to customer demand for mobile broadband multimedia applications, the 3GPP has developed the latest LTE-Advanced (LTE Release 10) standard, which will be fixed in December 2010. This book focuses on LTE and LTE-Advanced, and provides engineers with real insight and understanding into the why and how of the standard and