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Nota di contenuto	Section 1. Introduction to particulate emissions. Chapter 1. Gasoline engine particulate emissions introduction -- Chapter 2. Health impact of particulates from gasoline engines -- Chapter 3. Regulations and environmental technologies -- Section 2. Fundamentals of particulate emissions. Chapter 4. Soot formation in combustion -- Chapter 5. Fuel impact on particle formation -- Section 3. Particulate emission reduction technologies. Chapter 6. Advanced gasoline combustion and engine controls -- Chapter 7. Gasoline particulate filter design, fundamentals, and function -- Chapter 8. Gasoline particulate filter application and durability -- Chapter 9. Three-way catalyst integration into particulate filters -- Chapter 10. Three-way catalyst gaseous emissions: gasoline particulate filter vs. flow-through substrates -- Chapter 11. Uncoated gasoline particulate filter integration and examples -- Chapter 12. System integration and application for a three-way catalyst-coated gasoline particulate filter

-- Section 4. Measurement, modeling and control. Chapter 13. Measurement of gasoline particle emissions: laboratory and on-board vehicle -- Chapter 14. On-board diagnostics for gasoline particulate filters -- Chapter 15. Modeling of gasoline particulate emission control systems and components.

Sommario/riassunto

This book encompasses the current strategies and technologies used to reduce particulates to meet regulatory requirements and curtail health hazards -- reviewing principles and applications of these techniques.
