

CONTENT

	Page
Preface	vii
MOBILE SOURCE EMISSION CONTROL	
1. Catalyst Technologies to Meet Future Emission Requirements for Light-Duty Vehicles	2
2. Methane Oxidation over Noble Metal Catalysts as Related to Controlling Natural Gas Vehicle Exhaust Emissions	12
3. Automotive Catalyst Strategies for Future Emission Systems	26
4. Experimental Comparison Among Hydrocarbons and Oxygenated Compounds for their Elimination by Three-Way Automotive Catalysts	42
5. Steady-State Isotopic Transient Kinetic Analysis Investigation of CO-O ₂ and Co-No Reactions over a Commercial Automotive Catalyst	61
6. Particle Size and support Effects in NO Adsorption on Model Pt and Rh Catalysts	73
7. Effect of Ce on Performance and Physicochemical Properties of Pt-Containing Automotive Emission Control Catalysts	83
STATIONARY SOURCE EMISSION CONTROL	
8. The 1990 Clean Air Act and Catalytic Emission Control Technology for Stationary Sources	98
9. Selective Catalytic Reduction of Nitric Oxide with Ammonia over Supported and Unsupported Vanadia Catalysts	115
10. Catalytic Oxidation of Trace Concentrations of Trichloroethylene over 1.5% Platinum on γ -Alumina	125
11. Catalytic Oxidation of Trichloroethylene over PdO Catalyst on γ -Al ₂ O ₃	141
12. Thermal Decomposition of Halogenated Hydrocarbons on a Cu(111) Surface	153
Author Index	164
Affiliation Index	164
Subject Index	164