

## CONTENTS

### **PART I: LEAD EXPOSURE AND ABATEMENT**

Chapter 1.	The Prevalence of Lead Paint in Housing: Findings from the National Survey .....	3
	<i>R. P. Clickner, V. A. Albright, and S. Weitz</i>	
Chapter 2.	Data Analysis of Lead in Soil (HUD Survey Data) .....	13
	<i>S. F. Brown, B. D. Schultz, R. P. Clickner, and S. Weitz</i>	
Chapter 3.	National Survey of Lead Paint in Housing: Analysis of Error Sources .....	21
	<i>J. W. Rogers, R. P. Clickner, and M. Chen</i>	
Chapter 4.	The HUD Lead-Based Paint Abatement Demonstration in Public Housing .....	31
	<i>R. F. Eberle</i>	
Chapter 5.	Information Collected in the HUD Abatement Demonstration Program and Its Application in Planning a Follow-on Study .....	37
	<i>R. A. Lordo and M. Chen</i>	
Chapter 6.	Results from the Pilot Comprehensive Abatement Performance Study .....	49
	<i>B. E. Buxton, S. W. Rust, F. Todt, T. Collins, C. Boudreau, R. Hertz, P. Constant, G. Dewalt, J. G. Schwemberger, and B. S. Lim</i>	
Chapter 7.	Incidence of Severe Lead Poisoning in Children in Trinidad Resulting from Battery Recycling Operations .....	63
	<i>I. Chang-Yen, C. Emrit, and A. Hosein-Rahaman</i>	

### **PART II: PROGRAM AND POLICY ISSUES**

Chapter 8.	The U.S. Environmental Protection Agency's Broad Strategy to Address Lead Poisoning .....	71
	<i>J. S. Carra</i>	
Chapter 9.	The U.S. Department of Housing and Urban Development's Lead Strategy and Lead-Based Paint Program .....	77
	<i>R. J. Morony and B. T. Cook</i>	
Chapter 10.	CDC's Perspective on Preventing Lead Poisoning in Young Children .....	79
	<i>S. Binder</i>	
Chapter 11.	National Implementation Plan for the Prevention of Childhood Lead Poisoning from Residential Exposure to Lead-Based Paint .....	85
	<i>B. T. Cook</i>	
Chapter 12.	A Pound of Prevention, an Ounce of Cure: Paradigm Shifts in Childhood Lead Poisoning Programs .....	89
	<i>K. W. James Rochow</i>	
Chapter 13.	Coordinated National Strategy on Childhood Lead Poisoning: A National Action Plan ...	97
	<i>A. M. Guthrie and D. Ryan</i>	
Chapter 14.	Encapsulation of Lead-Based Paint .....	101
	<i>B. A. Leczynski, J. G. Schwemberger, and R. J. Cramer</i>	
Chapter 15.	Successful Low-Cost Risk Communication and Public Education Programs .....	105
	<i>D. L. McAllister</i>	

### **PART III: CHEMICAL MEASUREMENT METHODS**

Chapter 16.	Phosphate Addition to the Delves Cup Method .....	121
	<i>F. Ruszala, D. Worsley, and J. Hogan</i>	
Chapter 17.	New Developments in Lead-Paint Film Analysis with Field Portable X-Ray Fluorescence Analyzer .....	127
	<i>S. Piorek, J. R. Pasmore, B. D. Lass, J. Koskinen, and H. Sipila</i>	
Chapter 18.	The Analysis of Lead-Based Paint Layers: A Qualitative Comparison of Methods .....	135
	<i>R. J. Narconis, V. Divljakovic, S. L. Barnes, and A. M. Krebs</i>	

Chapter 19. Characterization and Identification of Lead-Rich Particles: A First Step in Source Apportionment .....	143
<i>G. S. Casuccio, M. L. Demyanek, G. R. Dunmyre, B. C. Henderson, and I. M. Stewart</i>	
Chapter 20. Development of a Field-Test Method for the Determination of Lead in Paint and Paint-Contaminated Dust and Soil .....	161
<i>P. M. Grohse, K. K. Luk, L. L. Hodson, B. M. Wilson, W. F. Gutknecht, S. L. Harper, M. E. Beard, B. S. Lim, and J. J. Breen</i>	
Chapter 21. Preparation and Evaluation of Lead-Containing Paint and Dust Method Evaluation Materials .....	169
<i>E. E. Williams, D. A. Binstock, E. D. Estes, J. D. Neefus, L. E. Myers, W. F. Gutknecht, B. S. Lim, J. J. Breen, S. L. Harper, and M. E. Beard</i>	
Chapter 22. NIST-SRM 2579 Lead Paint Films for Portable X-Ray Fluorescence Analyzers .....	183
<i>P. A. Pella, M. McKnight, K. E. Murphy, R. D. Vocke, E. Byrd, J. R. DeVoe, J. S. Kane, E. S. Lagergren, S. B. Schiller, and A. F. Marlow</i>	

#### PART IV: SAMPLING METHODS AND STATISTICAL ISSUES

Chapter 23. Vacuum Sampling of Sealed Dust for Lead Analysis .....	191
<i>B. S. Lim, J. G. Schwemberger, P. Constant, and K. Bauer</i>	
Chapter 24. Analysis of Factors Contributing to Lead in Household Dust: Accounting for Measurement Error .....	203
<i>B. Price and E. C. Baird, III</i>	
Chapter 25. Multielement Analysis of Lead-Based Paint Abatement Data .....	217
<i>J. G. Kinney, S. W. Rust, and J. G. Schwemberger</i>	
Chapter 26. Determination of Environmental Lead, Using Compositing of House Dust Samples .....	231
<i>M. R. Farfel and C. A. Rohde</i>	
Chapter 27. Sampling Methodology and Decision Strategy for Testing for Lead-Based Paint in Public Housing .....	237
<i>D. C. Cox and J. G. Schwemberger</i>	
Chapter 28. Efficient Methods of Testing Lead-Based Paint in Single-Family Homes .....	243
<i>A. Greenland, D. C. Cox, J. G. Schwemberger, and C. Foster</i>	
Chapter 29. Relationships Among Lead Levels in Blood, Dust, and Soil .....	255
<i>D. A. Burgoon, S. W. Rust, and K. A. Hogan</i>	
Chapter 30. Application of a Novel Slurry Furnace AAS Protocol for Rapid Assessment of Lead Environmental Contamination .....	265
<i>Michael S. Epstein, Sarah M. Smith, and Joseph J. Breen</i>	
Epilogue <b>Check Our Kids for Lead:</b> Empowering Employees to Make a Difference .....	271
<i>J. J. Breen, C. R. Stroup, S. Wooten, V. R. Anderson, K. A. Benjamin, G. H. Bergeison, S. F. Brown, B. T. Cook, G. Cooper, L. M. Harris, B. S. Lim, D. G. Lynch, and B. A. Myrick</i>	
Index .....	273