



Principles and Practices of Air Pollution Control and Analysis

By J.R. Mudakavi

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Principles and Practices of Air Pollution Control and Analysis is a ready reference book for scientists and technologists. The subject matter has been presented in five sections and 25 chapters. First section introduces the student to air pollution and the second section deals with the current air pollution control technologies. The third section is informative in character and presents environmental issues related to air pollution such as acid rain, global climatic change, CFCs and ozone layer etc. The fourth section presents management aspects of air pollution and the final section has been dedicated to instrumentation and chemical has been structured to other clear understanding of the subject matter with illustrated examples.

The book provides an essential reading for undergraduate and postgraduate students of Environmental Science and/ Engineering and provides an insight into the chemistry of air pollution. It will also be of interest for professionals and consultants working in the area of air pollution control.

Contents: **PART I: INTRODUCTION TO AIR POLLUTION** / Air pollution: A global phenomenon / Gaseous pollutants in the Air / Physico-Chemical Properties of Gases and Solutions / Metrological Aspects of Air Pollution / Characteristics of Stack Plumes / **PART II: CONTROL TECHNOLOGY** / Sampling and Measurement of Air Pollution // Particulate Control Technologies / Absorption of Gaseous Emission / Adsorption of Gaseous Pollutants / Air Pollution Control by Combustion / Control of Sulphur Dioxide Emissions / Emissions Control of Nitrogen Oxides / Control of Organic Emissions / **PART III: CURRENT TOPICS** / Indoor Air Pollution / Automobile Emission Control / Global Climate Change / Ozone and Chlorofluorocarbons in the Stratosphere / Acid Rain / Noise Pollution / **PART IV: AIR POLLUTION MANAGEMENT** / Magnitude and Effects of Air pollution / Air Pollution in India and the World / Air Quality: Emission Standards, Legislation and Administration / Air Pollution Indices and Surveys / **PART V: ANALYTICAL ASPECTS** / Techniques for the Analysis of Air Pollutants / Chemical Analysis of Selected Air Pollutants / Appendices / Notations / Index

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Editorial Review

About the Author

J.R. Mudakavi completed M.Sc. in Chemistry from I.I.T. Bombay in 1972. Later he joined Indian Institute of Technology Madras, for D.I.I.T. program in Instrumentation and completed his Ph.D. on the 'Separation and Determination of trace quantities of Platinum and Palladium' in 1977. At present he is Principal Research Scientist, at the Department of Chemical Engineering, Indian Institute of Science, Bangalore. During 1986 to 1988 he worked as a Visiting Scientist in Perkin Elmer Corporation Ltd., at Ueberlingen, West Germany where he specialised on the Matrix Modification, Graphite Furnace Atomic Absorption Spectrometry and Hydride Generation AAS. His current research interests include environmental pollution control, modern instrumental methods of analysis, trace and ultra trace determination of metals and organics, process development and activated carbon fibres. Dr. Mudakavi has guided one Ph.D. and 10 M.E., M.Sc. students. He has 30 years research experience in these areas and published more than 75 papers in national and international journals and chaired several sessions in the national seminars symposia etc. He has been conferred the Best Engineering Material Development Award for the development of Activated Carbon Fabric for use in breathing masks. Dr. Mudakavi has undertaken a number of consultancy projects with WIDIA, HEG, I.I.C., TANFAC, KSPCB, BWSSB, National Bureau of Accreditation, UGC, DST, etc.

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