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With the rise in
general awareness of
the effects of trace
chemicals in the
environment on man's

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health, it has been realized that traditional methods of analysis are often inadequate. Reliable analyses are needed in the fractional parts-per million range of contaminants in condensed phases, and of the order of micrograms per cubic meter in air. Trying to get meaningful

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Answers regarding such minute amounts raises cogent problems in all stages of an analysis. It is most appropriate, therefore, that the 1971 Eastern Analytical Symposium should have four half-day sessions devoted to this general field. Two of these, entitled "Trace Metals in the

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Environment," were assembled by Dr. Kneip, one on "Pesticides in the Environment: Recently Discovered Analytical Problems," by Dr. Zweig, and one on "The Determination of Anions in Water," by Dr. Lambert. Together, these reports furnish a fairly

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complete picture of the present state of environmental analysis. The remainder of this volume is devoted to pharmaceutical analysis, a diversified field in which nearly all analytical methods find a place. Partly because of this multiplicity of techniques, and partly due to the large

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number of samples which must be examined in connection with the manufacture, biological testing, and clinical application of pharmaceutical preparations, this area is particularly appropriate for the introduction of automation. The objective, broadly, is

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to speed up multiple analyses without the sacrifice of accuracy.

With the rise in general awareness of the effects of trace chemicals in the environment on man's health, it has been realized that traditional methods of analysis are often inadequate. Reliable

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monitoring site
assessment and
remediation follow-up
operations. The
increased concern
about environmental
issues such as water
pollution, air pollution,
accumulation of
pollutants in food,
global climate
change, and effective
remediation
processes necessitate

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start with the
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furnishes the fundamentals of instrumental chemical analysis methods to various environmental applications and also covers recent developments in instrumental chemical methods. Covering a wide variety of topics in the field, the book:

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chemistry • Presents the fundamentals of instrumental chemical analysis methods that are used mostly in the environmental work. • Examines instrumental methods of analysis including UV/Vis, FTIR, atomic absorption, induced coupled plasma emission,

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electrochemical
methods like
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voltametry,
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methods such as GC
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the determinations of
various pollutants in
water, air, and land
Readers will gain a
general review of
modern instrumental
method of chemical
analysis that is useful
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highlights the current developments and future potential of the analytical green chemistry-oriented applications of various solutions. The book consists of sixteen chapters, including the history and milestones of GAC; issues related to teaching of green analytical chemistry

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and greening the university laboratories; evaluation of impact of analytical activities on the environmental and human health, direct techniques of detection, identification and determination of trace constituents; new achievements in the field of extraction of

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trace analytes from samples characterized by complex composition of the matrix; “green” nature of the derivatization process in analytical chemistry; passive techniques of sampling of analytes; green sorption materials used in analytical procedures;

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New types of solvents
in the field of
analytical chemistry.
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chromatography and
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pollutants, qualitative
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Professor at the
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Gdańsk University of
Technology, Poland.
Justyna Półotka-
Wasyłka is a teacher
and researcher at the
same department.

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the most pressing
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for minimum waste
and maximum
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on the establishment
of analytical
techniques in the
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their effects on health and nature. The book stresses that these analytical techniques are essential in order to cope with the problems arising from the utilization of these compounds. The selection contains the contributions of authors who have continuously performed studies on

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the analysis of organic and inorganic pollutants and monitoring strategies or case histories of compounds. These pieces focus on the role of analytical chemistry in the control of compounds, particularly if the compounds are seen to pose threat to health and the

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environment. The text presents studies on the determination of how these

compounds can become pollutants, which are emphasized by the experiments and laboratory procedures mentioned in the book. Through research on hazardous

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compounds in different areas, the book manages to point out the differences of how these compounds can affect the environment and health. The text then proceeds by presenting various analytical techniques that could be employed to mitigate the hazardous nature

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of these compounds. The book is a reliable source of information for scholars and readers who are interested in studying how to control the hazardous effects of compounds both on health and the environment.

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framework for finding useful data tables that are ordinarily scattered throughout the literature. Worked examples provide step-by-step details for frequently used calculations, drawing on case histories from real-world environmental applications. Chapters also offer tools for

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calculating quick estimates of important quantities and practice problems that apply the principles to different conditions. This practical guide provides an ideal basis for self-study, as well as short courses involving the movement and fate of contaminants in the environment. In

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In addition to extensive reorganization and updating, the Third Edition includes a new chapter, Nutrients and Odors: Nitrogen, Phosphorus, and Sulfur, two new appendices, Solubility of Slightly Soluble Metal Salts and Glossary of Acronyms and Abbreviations

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