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spectrometric techniques. Because basic principles and terminology are minially reviewed, the book can be used by students and others who have not had the benefit of a strong survey course in instrumental analysis.

The field of spectrochemical analysis is very broad. The radiation/matter interactions that are the basis of many of the methods are often learned in the context of quantum and statistical mechanics. The instrumentation utilized combines optics, mechanics, electronics, and signal processing principles. The data obtained are properly assessed through the application of statistics, information theory, and increasingly, computer and systems science. It is important to realize, however, that

550 ere is a great deal of chemistry in spectrochemical methods. Chemical reactions and interactions are often employed to improve the detection limits and to interactions the selectivity of methods. Similarly, chemical and physical interactions are often the cause of those.

interferences that are broadly called "month's effects."

as which an understanding of chemistry can aid m ob-

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#### UNITS, CONSTANTS, CONVERSION FACTORS, ABBREVIATIONS, AND QUANTUM NUMBERS 568

#### SYMBOLS 571



Annale consustant and sample celt, 42 Cell gennetry, 43 Detectors, 43 Signal and Noise Expressions, 448 Signal and Noise Expressions, 438 Detectors, 400 

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