

# I. X-ray Photoelectron Spectroscopy

A. Introduction .....

B. Principles of the Technique .....

C. Preparing and Mounting Samples

1. Removing Volatile Material

2. Removing Nonvolatile Organics

3. Surface Etching

4. Abrasion

5. Fracturing and Scraping

6. Grinding to Powder

7. Mounting Powders for Analysis

D. Experimental Procedure .....

1. Technique for Obtaining Spectra

2. Instrument Calibration

3. Programming Scans for an Un

a. Survey Scans