

McGraw-Hill **HANDBOOKS**

DEAN'S ANALYTICAL CHEMISTRY HANDBOOK SECOND EDITION

- Offers a full range of analytical methods, including conventional wet and instrumental techniques
- Preliminary separation methods
- Statistics in chemical analysis

PRADYOT PATNAIK

CONTENTS

Preface	vii
Preface to the First Edition	ix
Section 1. Preliminary Operations of Analysis	1.1
Section 2. Preliminary Separation Methods	2.1
Section 3. Statistics in Chemical Analysis	3.1
Section 4. Gravimetric and Volumetric Analysis	4.1
Section 5. Chromatographic Methods	5.1
Section 6. Electronic Absorption and Luminescence Spectroscopy	6.1
Section 7. Infrared and Raman Spectroscopy	7.1
Section 8. Atomic Spectroscopy	8.1
Section 9. X-Ray Methods	9.1
Section 10. Mass Spectrometry	10.1
Section 11. Radiochemical Methods	11.1
Section 12. Nuclear Magnetic Resonance Spectroscopy and Electron Spin Resonance	12.1
Section 13. Magnetic Susceptibility	13.1

Section 14. Electroanalytical Methods	14.1
Section 15. Thermal Analysis	15.1
Section 16. Optical Activity and Rotatory Dispersion	16.1
Section 17. Refractometry	17.1
Section 18. Elemental Analysis of Organic Compounds	18.1
Section 19. Determination of Functional Groups in Organic Compounds	19.1
Section 20. Analysis of Pesticides and Herbicides	20.1
Section 21. Analysis of Trace Pollutants in the Environment	21.1
Section 22. Air Analysis	22.1
Section 23. Mineral Analysis	23.1
Section 24. Methods for Determination of Water in Gases, Liquids, and Solids	24.1
Appendix. Symbols, Abbreviations, and Definitions	A.1