### Modern Pharmaceutical Analytical Techniques

**Introduction to Instrumental Analysis, 2nd Ed.**

*Robert D. Braun*

Contents:
1. Introduction to Chemical Instrumental Analysis
2. Simple DC and AC Electric Circuits
3. Electronic Circuits
4. Operational Amplifiers, Logic Devices, and Computers
5. Introduction to Spectral Methods of Analysis
6. Atomic Absorption Spectrophotometry
7. Flame Emission and Atomic Emission
8. Atomic Fluorescence, Resonant Ionization, and Laser-Enhanced Ionization
9. Ultraviolet-Visible Spectroscopy
10. Atomic Fluorescence, Resonant Ionization, and Laser-Enhanced Ionization
11. Fluorescence and Phosphorescence
12. Infrared Spectrophotometry
13. Photoacoustic Spectroscopy
14. Radiative Scattering
15. Refractometry
16. Nuclear Magnetic Resonance Spectroscopy
17. Electron Spin Resonance Spectrometry
18. X-Ray Methods
19. Electron Spectroscopy
20. Radiochemical Methods
21. Mass Spectrometry
22. Potentiometry
23. Nonpotentiometric Electroanalysis
24. Introduction to Chromatography
25. Liquid Chromatography
26. Gas Chromatography
27. Thermal Analysis
28. Automated Analysis

**ADVANCED BIOSTATISTICS & RESEARCH METHODS**

**Biostatistics and Computer Applications**

*G. Nageswara Rao and N.K. Tiwari*

Contents: PART - A: Biostatistics
1. Introduction
2. Collection of Data
3. Data Organization
4. Dispersion and Standard Deviation
5. Skewness and Kurtosis
6. Probability and Distributions
7. Correlation and Regression
8. Tests of Hypotheses
9. Chi-Square Test
10. Analysis of Variance
11. Experimental Designs
12. Statistical Quality Control

PART - B: Computer Applications
13. Introduction to Computers
14. History of Computers
15. Classifications of Computers
16. The System Concept
17. Fundamentals of Operating System
18. Computer Languages
19. Concept of Programming
20. Computer Networks
21. DataBase Management
22. C Programming Language
23. Applications of Computers in Pharmaceutical and Clinical Studies

**Research Methodology and Quantitative Methods**

*G. Nageswara Rao*

Contents:
1. Introduction
2. Research Process
3. Methods and Materials
4. Scale Construction Methods
5. Elementary Decision Theory
6. Collection of Data
7. Data Organization
8. Measures of Central Tendency
9. Measures of Dispersion
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11. Probability Distribution
12. Correlation and Regression
13. Analysis of Variance
14. Time Series and Index Numbers
15. Non-Parametric Tests
16. Elementary Queuing Theory
17. Multivariate Statistical Methods
18. Report Writing
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