



# Handbook of Analytical Instruments

*R S Khandpur*

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## **Handbook of Analytical Instruments** R S Khandpur

Each chapter has been revisited, obsolete material deleted and new developments included at various places so that the reader gets the best from the new edition. The new topics which have been included as separate chapters are: Scanning Electron Microscope and Scanning Probe Microscope (Scanning Tunneling Microscope & Atomic Force Microscope). Particle size analyzers play an important role in research and development and for quality control in many industries such as pharmaceuticals, ceramics, cement, paints and emulsions etc. Realizing the need of the users in these areas, a new chapter on Particle Size Analyzers and Counters has been included.

New to the 3rd edition

1. Brief introduction to the use of MEMS in analytical instrumentation, leading to Lab-on-a-Chip technology
2. Rising trends in portable spectrophotometers using fiber optics
3. Use of Fourier transform with conventional instrumentation such as Infrared Spectroscopy, Raman Spectrometry, NMR Spectrometry, Mass Spectrometry etc
4. Neutron Activation Analysis Technique
5. Liquid Chromatography-Mass Spectrometry
6. Flow injection automated analysis system, semi-automated clinical chemistry analyzer and point of care instrumentation
7. Thermo-mechanical analysis instrumentation
8. Capillary electrophoresis instrumentation including DNA sequencer
9. Integrated chips for modern pH meters
10. Process gas analyzers including online quantitative analysis of industrial gases
11. Various levels of power supplies
12. Embedded systems and digital signal processors
13. Popular software packages which find applications in analytical instrumentation, interfacing techniques, computer networking and smart laboratory concepts

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