



# Handbook of Analytical Instruments

By R. S. Khandpur

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## Handbook of Analytical Instruments By R. S. Khandpur

Analytical Instrumentation offers powerful qualitative and quantitative techniques for analysis in chemical, pharmaceutical, clinical, food-processing laboratories and oil refineries. It also plays a critical role in the monitoring and control of environment pollution. Over the years, this field has become extremely sophisticated. Today, microcontrollers and personal computers have been integrated into analytical instruments. This has brought in automation, efficiency and precision in analytical instrumentation. To keep users abreast of such advances, this edition of the Handbook of Analytical Instruments describes the principles and building blocks of analytical instrumentation. Recent advances in bio-sensors, gamma spectrometry, electron spin resonance (ESR) spectrometry, visualization methods for electrophoresis and several other tools and techniques of analytical instrumentation have been covered. In order to ensure that readers make the right decision, in terms of the instrument that best meets their requirements, the book includes a discussion of analytical instruments from various manufacturers. Useful for!.. ' Supervisors and technicians in clinical, pharmaceutical, food-processing laboratories and oil refineries. ' Personnel concerned with the monitoring and control of environmental pollution ' Service and maintenance engineers ' Post-graduate students of physics and chemistry undergoing courses in instrument analysis ' Students of instrumentation, electronics and chemical engineering

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## **Editorial Review**

### **About the Author**

Dr R.S. Khandpur is currently Director General, Pushpa Gujral Science City, Kapurthala, Punjab-a joint project of the Government of India and Punjab Government. Prior to this, he was Director General, Centre for Electronics Design and Technology of India (CEDTI), an autonomous scientific society of the Ministry of Communication and Information Technology, Government of India. Dr Khandpur was the Founder Director of CEDTI, which is the first ISO-9002 certified organization of the Ministry of Information Technology. Dr Khandpur has served as a scientist for 24 years in CSIO, Chandigarh-a constituent laboratory of the Council of Scientific and Industrial Research (CSIR). He was Head of the medical instruments division (1975-1989) and Head of the electronics division (1986-1989). Dr Khandpur is a member of board of governors, Punjab Technical University; and director, board of directors, Punjab Information and Communication Technology Corporation Ltd. He is a AICTE distinguished visiting professor, and member of the vision group on IT, set up by the Punjab Government. He is a member of IEEE (Institution of Electronics and Telecommunication Engineers), USA, and fellow of IETE (Institution of Electronics and Telecommunication Engineers). Dr Khandpur has over four decades of experience in R&D, technology transfer, education and training, consultancy and management at national and international levels. He is the recipient of the 1989 Independence Day Award of the National Research and Development Corporation and IETE (Institution of Electronics and Telecommunication Engineers), for outstanding contribution to the development of the electronics industry. Dr Khandpur holds six patents of innovative designs, has authored seven books and published over 60 review papers.

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