



## Practical Undergraduate Instrumental Analysis Laboratory Experiments (Paperback)

By Nianhong Chen

Nianhong Chen, United States, 2013. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The aim of this book is to provide a practical and affordable general lab manual for undergraduate Instrumental Analysis (IA) course. After extensive experience in teaching IA laboratory course for a number of years, I have developed this lab manual in what I believe to be an improved version of an IA manual that is both concise and comprehensive. The factors I consider most important for an IA manual to be effective in teaching are as follows: 1) the instruments covered in the manual should follow ACS guidelines, and reflect new advances in the field of IA, while also addressing industrial needs; 2) experiments in the manual should address the basic principles of the instruments and help the students to understand the fundamental concepts and mechanisms of the instruments; 3) the manual should facilitate the instructor to cover lab processes from both theoretical and operational perspectives; and 4) the lab manual should be affordable, and meet the needs of majority of today's undergraduate chemistry and other multi-disciplinary (e.g. environmental science) programs. This manual provides the core...



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