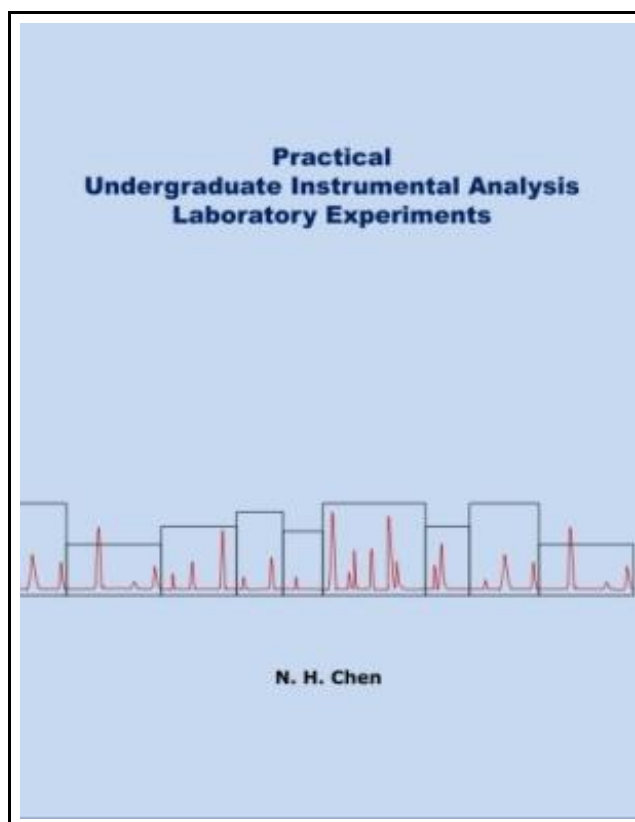


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Reviews

Basically no phrases to spell out. It is actually rally interesting throgh studying time. You can expect to like just how the article writer create this publication.


(Braden Leannon)

PRACTICAL UNDERGRADUATE INSTRUMENTAL ANALYSIS LABORATORY EXPERIMENTS (PAPERBACK)



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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 essentials for the most common instruments recommended by ACS guidelines as well as those used in a traditional chemistry program. They are electrochemistry (Chapter 2), spectroscopy (Chapter 3, 4, 5, 6, 7), separation (Chapter 8, 9, 10). Hyphenated techniques (GC/MS, LC/MS and ICP/MS) are also included in relevant chapters. Traditional mass spectroscopy is not covered in separate experiments, but the basic principles are introduced in the experiments of the hyphenated techniques. A separate chapter covering basic statistics is provided at the beginning of the manual (Chapter 1). I strongly believe that some basic statistical principals and operations (e.g., linear regression)...

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