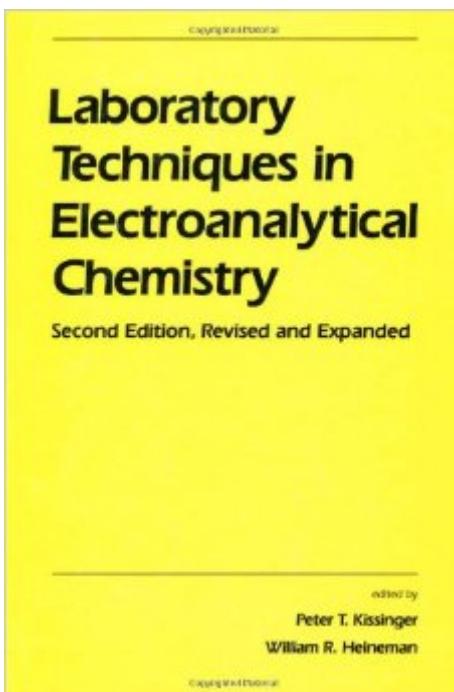


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Laboratory Techniques In Electroanalytical Chemistry, Second Edition, Revised And Expanded



Synopsis

This volume provides a practical, intuitive approach to electroanalytical chemistry, presenting fundamental concepts and experimental techniques without the use of technical jargon or unnecessarily extensive mathematics. This edition offers new material on ways of preparing and using microelectrodes, the processes that govern the voltammetric behavior of microelectrodes, methods for characterizing chemically modified electrodes, electrochemical studies at reduced temperatures, and more. The authors cover such topics as analog instrumentation, overcoming solution resistance with stability and grace in potentiostatic circuits, conductivity and conductometry, electrochemical cells, carbon electrodes, film electrodes, microelectrodes, chemically modified electrodes, mercury electrodes, and solvents and supporting electrolytes.

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Customer Reviews

This text is an excellent reference for practising analytical chemists. As the title indicates, the emphasis is on analytical chemistry, not physical chemistry. It presents the physical aspects of electrochemical phenomena lucidly, without getting bogged down in the tedium of deriving & solving diffusion equations. The text is comprehensive in treating the major electroanalytical experiments, written by leaders in their respective fields. I give this to graduate students in analytical chemistry and find that they really like it. It is well-referenced, has good figures & tables, and is reasonably priced. This text is a must for transferring your ideas for experiments to the bench.

Good for professors to use as a textbook. Handbook for all electrochemists

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