



Electrochemical Methods in Soil and Water Research

By T.R. Yu, G. L. Ji

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This book deals with the principles and practices of electrochemical methods as applied to soil and water research, particularly those that can be carried out in the field. Beginning with the basis of potentiometric methods, including electrode potential, principles of potentiometric methods, reference electrodes, liquid-junction potential and characteristics of ion-selective electrodes, the author then proceeds to describe the properties and applications of various types of potentiometric electrodes, including glass, solid-state membrane, liquid-state membrane, oxidation-reduction and gas sensors. A special chapter devoted to commonly encountered problems will aid readers not familiar with potentiometric methods. Voltammetric methods, conductometric methods and electrochemical instruments are also discussed.

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Editorial Review

Review

K. Nicholson

...a valuable reference work which is to be recommended.

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W.F. Smyth

...well organised and comprehensive...valuable reference work for those involved in research in soil, water, environmental, earth and biological sciences.

Analytica Chimica

The book may be used as a valuable reference for soil and water scientists as well as for scientists of related fields, such as environmental, earth and biological sciences.

GEOINFOS

T.E. Edmonds

The book has much to commend it, particularly to practitioners in soil and water analysis. Workers in the associated fields of biological and environmental analysis would find it useful in addition to students of electrochemistry and their supervisors who would benefit from its practical approach.

Analyst

M.S. Cresser

...is a useful addition for both libraries and analytical laboratories of those concerned with environmental analysis.

European Journal of Soil Science

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