

**TEXT-BOOKS OF PHYSICAL CHEMISTRY.
ELECTRO-CHEMISTRY. PART I: GENERAL
THEORY; INCLUDING A CHAPTER ON THE
RELATION OF CHEMICAL CONSTITUTION
TO CONDUCTIVITY**

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Text-Books of Physical Chemistry. Electro-Chemistry. Part I: General Theory; Including a Chapter on the Relation of Chemical Constitution to Conductivity by R. A. Lehfeldt & T. S. Moore

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R. A. LEHFELDT & T. S. MOORE

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EDITED BY SIR WILLIAM RAMSAY, K.C.B., F.R.S.

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THE progress of Physical Chemistry is now so rapid, its domain is so extensive, and the number of journals devoted to its exposition is so great, that it has appeared desirable to issue a series of volumes, each of moderate compass, and each dealing with one branch of the subject. The rate of advance in various branches of the subject is not equal; while, for example, the basis of the science remains comparatively stationary (for methods of determining atomic and molecular weights, and the classification of compounds undergoes little modification), rapid progress is being made in other branches. Hence it has been thought proper to issue several short manuals, so that each individual one may be frequently brought up to date, independently of others. In this way, a statement of what is known on each subject will be made accessible to students and investigators. The subject has been divided as follows, among the authors mentioned:—

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¹ This is the General Introduction to the series, and it also appears in Mr. Findlay's book on the Phase Rule.

ELECTRO-CHEMISTRY

PART I

GENERAL THEORY

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INCLUDING

A CHAPTER ON THE RELATION OF CHEMICAL
CONSTITUTION TO CONDUCTIVITY

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PREFACE

THE present volume deals with the general theory of electrochemistry. This is divided into two parts, one giving the relation between quantity of electricity and quantity of chemical action; the other and more recent part forms the pendant to the first by giving the relation between electromotive force and intensity of chemical action. These subjects are dealt with in Chapters I. and III. Chapter II. is in the nature of an appendix to the first chapter, and may be omitted by those who are not interested in pure chemistry, without detriment to the continuity of the book.

In a subsequent volume it is hoped to discuss the most important applications of the theory, to primary and secondary cells, to electrolysis, and to the solution of chemical problems.

R. A. L.

May, 1904.

CONTENTS

CHAPTER I

By R. A. LEHFELDT, D.Sc.

MECHANISM OF CONDUCTION IN ELECTROLYTES

SECT.		PAGE
1.	Faraday's Laws : Measurement of Quantity of Electricity . . .	1
2.	Mechanism of Electrolysis	12
3.	Phenomena at the Electrodes	21
4.	Migration of Ions	32
5.	Conductivity of Electrolytes	43
6.	Equivalent and Ionic Conductivities	58
7.	Arrhenius' Theory of Dissociation	69
8.	The Law of Dilution	75
9.	Conductivity of Mixtures	81
10.	Non-aqueous Solutions	84
11.	Conduction of Fused Salts	89

CHAPTER II

By T. S. MOORE, B.A., B.Sc.

RELATION OF CHEMICAL CONSTITUTION TO CONDUCTIVITY

1.	Relation of Charge carried to Constitution	93
2.	Relation of Mobility to Constitution	94
3.	Relation of Number of Ions in Solution to Constitution	98
4.	Double and Complex Salts	133
5.	Pseudo Acids and Bases	140
6.	Amphoteric Electrolytes	143

CHAPTER III

By R. A. LEHFELDT, D.Sc.

THEORY OF CHEMI-ELECTROMOTIVE FORCE	
SECT.	PAGE
1. Voltaic and Electrolytic Cells	146
2. Electromotive Force	153
3. Electrode Potential	156
4. Influence of Concentration	161
5. Concentration Polarisation	168
6. Chemical Polarisation	171
7. Thermodynamic Theory (i)	177
(ii) The Gibbs-Helmholtz Equation	185
(iii) Single Potential Differences at Electrodes	194
(iv) Potential Differences between Liquids	205
(v) Concentration Cells	210
(vi) Chemical Cells	220
Transition Cells	220
Cells with Reaction in a Homogeneous System	223
8. Methods of Measurement—	
A. Measurement of Electromotive Force	225
B. Measurement of Single Potential Differences	236
Standard Cells	241
TABLES	255
INDEX	261