

NOTES ON GALVANISM AND FARADISM

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Notes on galvanism and faradism by E. M. Magill

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E. M. MAGILL

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GALVANISM
AND FARADISM**

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BY

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WITH 67 ILLUSTRATIONS

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PREFACE

THE present volume in no way aims at competing with the many exhaustive works dealing with the theoretical aspect of Medical Electricity. It is intended simply as an introduction to a very difficult subject, and is mainly for the use of masseuses preparing for the examinations in Medical Electricity now held by the Incorporated Society of Trained Masseuses. For this reason the more complicated forms of apparatus, *e.g.* diathermy, high frequency, etc., have been omitted.

The certificated masseuse is bound by the rules of the above Society to work only under the direct supervision of a registered medical practitioner. It has not therefore been thought necessary to enter to any extent into the pathological and symptomatic aspects of the diseases mentioned; still less to point out the evil results attendant upon erroneous methods of treatment; for it is assumed that the patients are adequately protected by the fact that the doctor prescribes the form of treatment desirable, modifying the same when time and progress make modification necessary.

I have endeavoured to avoid, as far as possible, explanations requiring an extensive knowledge of mathematics, physics, and chemistry, and to make use of ordinary rather than technical terms. Where feasible, simple explanations have been adopted and more com-

plicated ones omitted ; for example, the polarisation of a cell has been attributed entirely to increased resistance and the question of a back E.M.F. avoided ; also, the plates of a cell have been regarded as of the same potential throughout, in accordance with the usage of many text-books on technical electricity. This avoids the difficulty which many students find of considering the plate to be of one potential in the electrolyte and of the opposite potential at the upper end.

I am much indebted to Messrs. Schall & Son and to Messrs. H. K. Lewis & Co. Ltd. for the kind loan of blocks for many of the illustrations ; and my thanks are also due to the Incorporated Society of Trained Masseuses for permission to insert the syllabus and previous examination questions to be found in the Appendix.

E. M. MAGILL,

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March, 1916.

PUBLISHERS' NOTE

THE gratifying reception accorded to the author necessitated a re-issue after so short an interval that it was decided to reprint the book. The opportunity was taken of correcting some slight verbal errors and a few misprints which had escaped notice. The publication of a second reprint has enabled the author to include two more Examination Papers, and to make a few additional corrections.

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