

A HANDBOOK OF ELECTRICAL TESTING

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A Handbook of Electrical Testing by H. R. Kempe

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H. R. KEMPE

**A HANDBOOK OF
ELECTRICAL
TESTING**

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OF
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BY
H. R. KEMPE,
ASSOCIATE OF THE SOCIETY OF TELEGRAPH ENGINEERS.



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PREFACE.

IT was originally intended that the series of papers in the 'Telegraphic Journal,' of which this little book is a revised and enlarged reprint, should have been confined to the subject indicated by their title, viz. "Resistances and their Measurement."

During the progress of the publication, however, it occurred to me that the treatment of the subject might be so extended and amplified as to embrace the general principles of electrical testing.

My aim has been to produce a series of papers which would not only explain the practical application of formulæ given in existing text-books, but also show by what processes they may be obtained.

When an amateur in electrical science, I had experienced considerable difficulty in satisfying myself upon this point, and I know that others have been, and are, similarly in need of information and guidance.

With the view, therefore, of doing something to aid students, and those who may be concerned or

interested in the inquiry, the present treatise is offered.

I trust it will meet a want which, so far as I know, has not hitherto been attempted to be supplied.

It is intimated at the commencement of the first chapter that the reader is assumed to possess a certain knowledge of electrical terms and expressions. This assumption rests upon the fact that explanations of these are given in most recent works on electricity (as, e. g. Ferguson's 'Electricity,' Noad's 'Student's Text-Book of Electricity,' Deschanel's 'Electricity and Magnetism'), which do not, however, touch upon the subject of electrical testing; and it is essential that the reader should have made himself acquainted with the general subject before he can proceed to this particular branch of it.

H. R. K.

ST. JAMES'S RECTORY, PICCADILLY,
LONDON, *January*, 1876.

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