PRACTICAL INFORMATION FOR TELEPHONISTS

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Practical Information for Telephonists by T. D. Lockwood

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T. D. LOCKWOOD

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FOR

TELEPHONISTS,

T. D. LOCKWOOD,

Electrician, American Rell Telephone Company.

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PREFACE.

No science is so pre-eminently the science of the age as that of Electricity; nor is any study so fascinating, or so enthralling to its votaries; and, when associated with its elder sister, "Magnetism," to work modern miracles, it is not for any living creature to limit the number, character or scope of its manifestations.

Justly prominent amid those manifestations stand the electrical transmission and reproduction of articulate speech; and to the fact that these ends have been accomplished, and that in consequence thereof a new industry has arisen, spreading itself over the civilized world in the short space of five years, are due the production and publication of the papers of which this little volume is composed.

Most of the articles were originally written for, and have already appeared in, THE OPERATOR; but in preparing them for publication in book form, they have all been carefully revised by the author, and, in nearly every instance, more or less re-written. They were all written with pleasure to the author, and with the desire that they might be not only interesting but profitable to the reader.

This book is not put forward as a text-book of electrical science, a manual of telegraphy, or even as a complete hand-book of the telephone; neither is it intended so much for the delectation and instruction of professional and accomplished electricians as a popular means of conveying practical ideas, mainly proved to be practical by actual practice, to that large and daily increasing constituency of telephone inspectors and operators; aud, also, to the equally large class of amateurs who, by the spirit of the age, have become interested in the electric telephone and its practical application.

Very few technical terms have been used, and a light and sugarcoated style has in many cases been adopted, which, it is hoped, will aid in the assimilation of the solid food; and attract some persons to read who would shun with faintly-disgnised horror the profound

PREFACE.

axioms, the didactic theorems, and the abstruse equations with which wiser men have adorned and illustrated more pretentious books. In fact, it is the modest boast of the author that no algebraic equation or erudite expression of differential calculus finds place within these pages.

Both the author and the publisher have in various ways become acquainted with the fact that these papers have been read—in many cases, by men who do not often read—and they are proportionately gratified by such a knowledge. They have both, also, frequently received letters inquiring for the numbers of the paper in which these articles were printed, and they therefore believe that their publication in the present substantial form, will subserve the double purpose of a reply to such letters and a supply of the desired back numbers.

It must not be forgotten by those who differ from any views herein expressed that the writer, not being at present actively concerned in the management of any telephone exchange, is compelled to confine himself to generalities, and to indicate the methods which, subject to modifications by individual conditions, would be employed by himself; and, therefore, to glean the greatest profit . from these pages, each reader must in practice make the requisite variations from the text to suit his own case.

If anything read in these pages shall tend to arouse ambition in the breast of youth, to cause a desire for self-improvement in any telephone employé, to implant zeal in a hitherto listless inspector, or to elucidate to any youthful aspirant to electrical or telephonic honors the daily and hourly problems of a telephone exchange, the aim of the writer will have been attained, and satisfaction will reign in his heart.—Pax Vobiscum.

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Practical Information for Telephonists.

HISTORICAL SKETCH OF ELECTRICITY FROM 600 B. C. TO 1882 A. D.

On the sea-coast of Prussia, and indeed throughout the whole length of the Baltic coast, is found a hard, brittle substance, with a resinous lustre, sometimes found perfectly transparent, but more usually of varying degrees of translucency. It possesses a prevailing yellow color, passing from a pale, straw tint, to a deep orange. It is found in irregular masses, and has no taste, nor, at ordinary temperature, odor.

Named by the Romans, "Electrum;" in our own language, "Amber;" by the French, "Ambre;" and by the ancient Greeks, "Electron;" this substance has been known from the earliest ages; and is chiefly known at the present time as being the beautiful straw-colored substance that furnishes material for the mouthpiece of the fragrant meerschaum or holder of the luscious Havana.

But what has this to do with the mysterious and ubiquitous force ?--Well, not much; only, were it not for the fact that some ancient fossil of a philosopher, . whose name has not been handed down to us, while one day rubbing a piece of amber (or as he, being a Greek, called it, "Electron"), found that after a little friction had passed between him and the amber, it