

**WIRELESS
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HERTZIAN WAVES**

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Wireless Telegraphy and Hertzian Waves by S. R. Bottone

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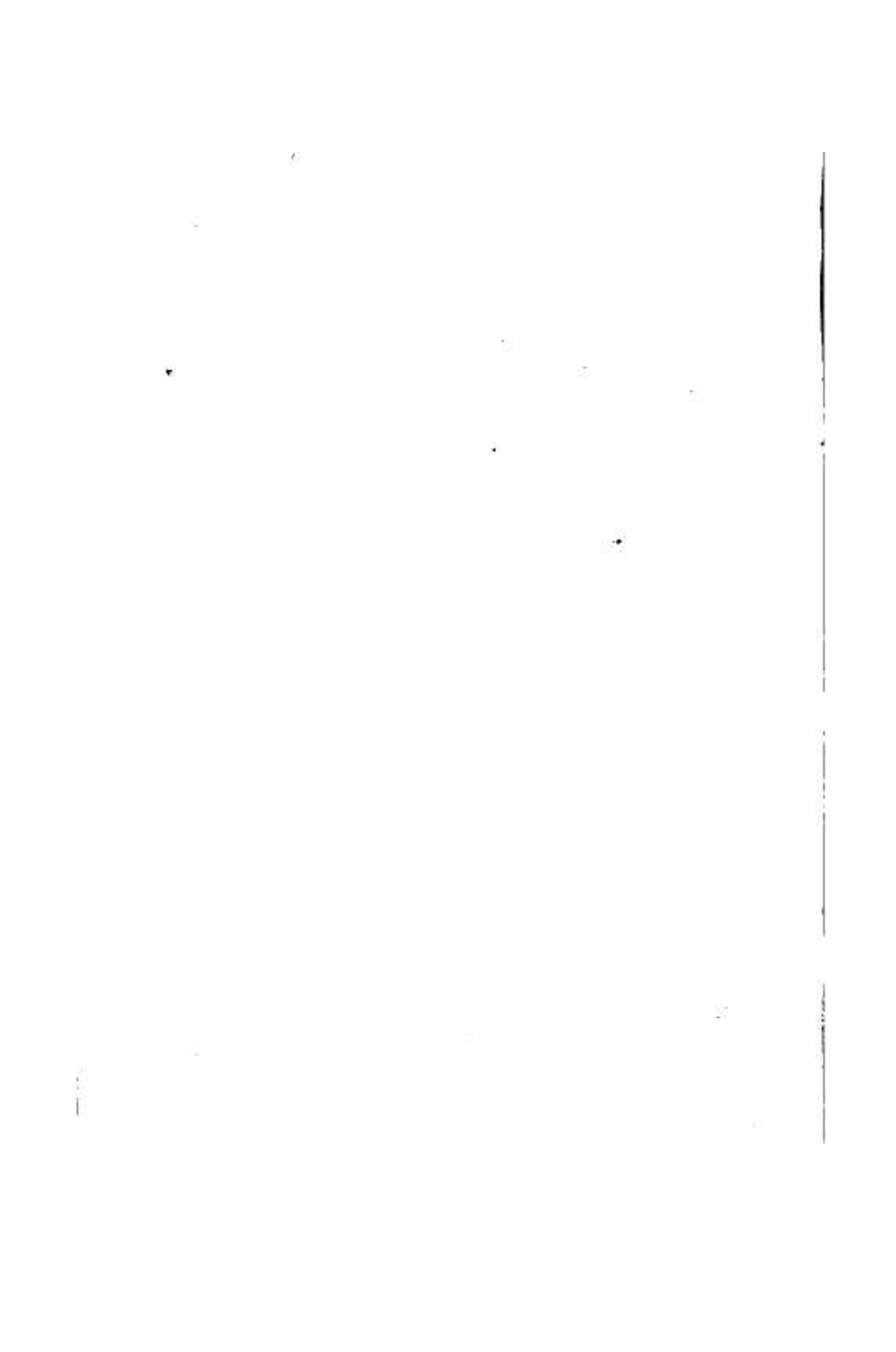
PREFACE

IN the following pages will be found an attempt to set forth, in simple language, the principles on which those phenomena known as "electric waves," "signalling through space without wires," etc., are dependent. No mathematical formulæ will be introduced; those who desire to investigate the mathematics of the subject are referred to Dr. Heinrich Hertz's classical work, *Electric Waves*. The subject will be divided into four portions, viz. a brief outline of what electricity is; a short historical sketch; a description of the phenomena themselves, with an account of the appliances needed for their production; and lastly, constructional details of the various pieces of apparatus required.

As electricians generally, with regard to their views of the nature of the medium through which the electrical disturbance takes place, are pretty equally divided into two camps, we shall not favour any particular hypothesis, but simply refer to the *space* between the body setting up the wave and that receiving it, as the *medium*.

S. R. BOTTONE.

*Wallington, Surrey,
February 1900.*



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