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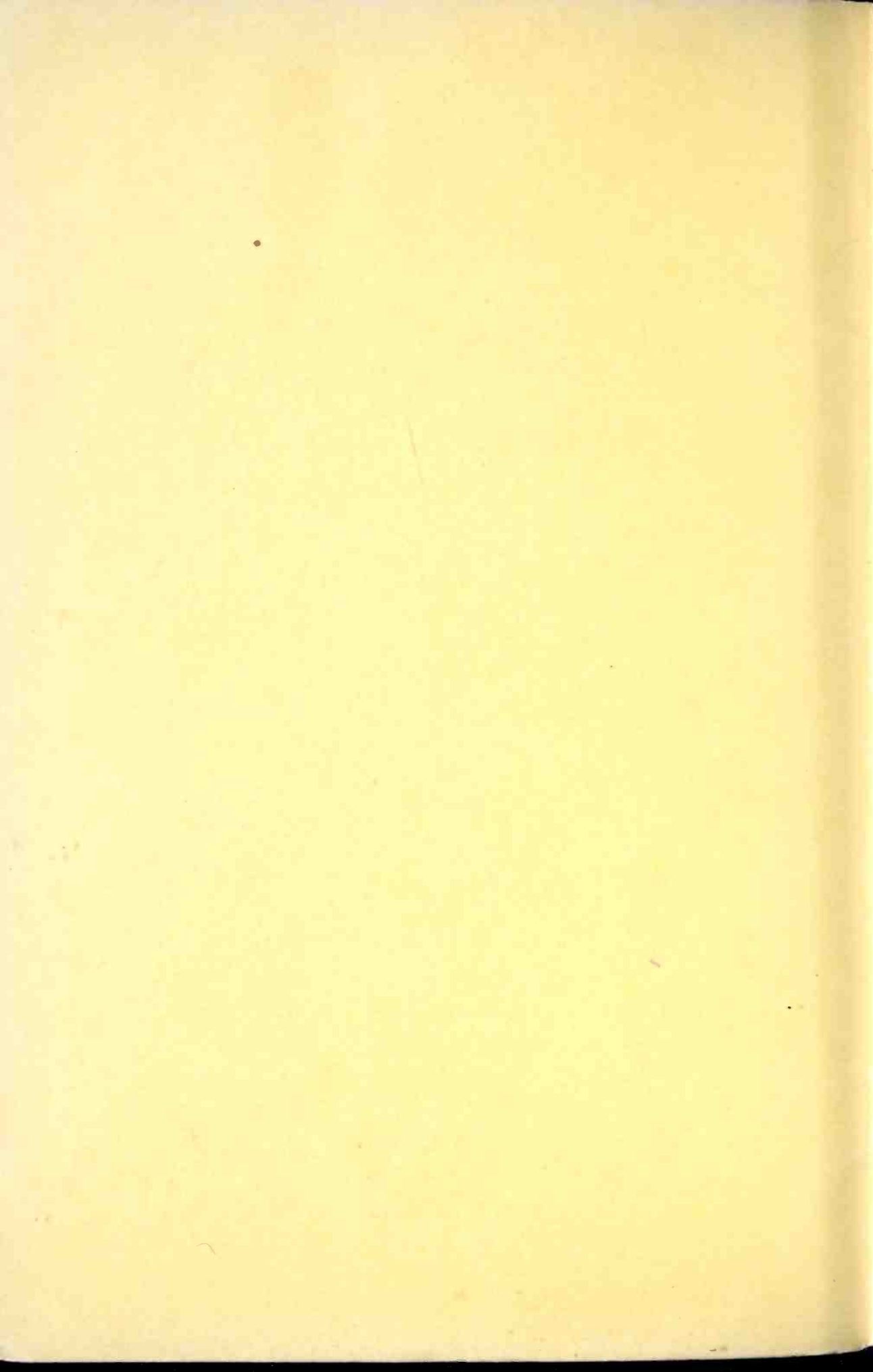
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THE WIRELESS INSTITUTE NEW YORK

Proceedings of the meeting held in
the United Engineers' Building,
New York City, April 7th, 1909

and
CONSTITUTION



The second regular meeting of The Wireless Institute was held in the United Engineers' Building, 33 West Thirty-ninth Street, New York, Wednesday, April 7, 1909. President Marriott called the meeting to order at 8:40 P. M.

Mr. R. H. Marriott presented the following paper:

THE WIRELESS INSTITUTE.

Various experiences in wireless during a period of some nine years frequently impressed the writer with the thought that there should be some organization of wireless men for the purpose of discussing wireless subjects.

The first idea was for the formation of a society of wireless engineers of the company with which the writer was connected, but after considerable consideration of the needs of wireless, it was concluded that an organization should be founded, having as its fundamental purpose, "To bring together wireless men so that they may help each other toward making wireless of the greatest benefit to mankind."

As wireless workers, i. e., persons who are trying to improve wireless and make it more serviceable to mankind, are included in lines other than that covered by the term Wireless Engineer, and as there are wireless workers who are helping to develop wireless in each and every one of the wireless companies, in Government service, and in independent work, therefore, an institute based in the purpose stated above should include practically everybody interested in the development of wireless, whether as a Wireless Operator, a member of the business department of a wireless company, an independent experimenter, a stockholder in a wireless company, a statesman or officer upon whom it falls to make or enforce laws pertaining to wireless, an employee of a boat company which uses wireless, or a person using wireless as a means of communication. In fact, there are many people who are helping to make wireless of greater service or are willing to make it of greater service.

On May 24, 1908, the writer sent out some two hundred letters to persons interested in wireless, asking their opinions regarding the formation of such an institute. Answers were

A DISCUSSION ON EXPERIMENTAL TESTS OF THE RADIATION LAW FOR RADIO OSCILLATORS.*

Opened by Professor MICHAEL I. PEVRE, Ph.D., Professor of
Electro-Technology, Columbia University.

I have been requested to speak before your Institute and I replied that, altho I am much interested in radio-telegraphy, and have done some work in that field, yet at the present time my chief interest lies in another direction. However, my work during the last three or four years has suggested a method which might prove useful in determining the law of radiation from antennas.

I number among my friends many workers in the radio field, among them such men as Professor BROWN, MARCONI, HEWITT, de FURST, FEINERMAN and MAX WITAN, the last being a colleague of mine, a fellow-student, and one with whom I have corresponded in regard to the matter of the determination of the radiation law. It struck me that there was one thing which perhaps these men have not done as thoroughly as it might be done, and that is the determination of the relation between the frequency of the alternating current in the radiator and the capacity of the radiator to throw off energy. Of course you all know that the higher the frequency, other things being equal, the faster the energy is radiated. But what is the exact law, and what is its theoretical foundation? I have always been interested in that. I have, for instance, asked Mr. Feinerman whether forty thousand cycles of sufficiently high frequency radiation, and he replied that even lower frequencies might be employed. Marconi at that time said that he preferred a half million cycles per second, and thus we encountered a difference of opinion.

The extremely high frequency of these currents viewed from the standpoint of ordinary electrical engineering technique makes it difficult to produce trustworthy generators, and the higher the

*Lecture delivered before The Wireless Institute, one of the component societies which combined to form the Institute of Radio Engineers.

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The publication of the PROCEEDINGS was started by The Wireless Institute in 1909. The first paper was by Robert Henry Marriott, President of The Wireless Institute, and later first President of The Institute of Radio Engineers. That paper on The Wireless Institute related the history of its formation, set forth the reasons for such an Institute, and outlined a plan for papers and PROCEEDINGS.

In 1912, The Society of Wireless Telegraph Engineers and The Wireless Institute combined to form The Institute of Radio Engineers.

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PRELIMINARY REPORT
OF THE
COMMITTEE ON STANDARDIZATION
OF THE
INSTITUTE OF RADIO ENGINEERS

DEFINITIONS OF TERMS,
GRAPHICAL AND LITERAL SYMBOLS

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NEW YORK CITY.
September 11, 1912

DEFINITIONS OF TERMS.

Acoustic Resonance Device. One which utilizes in its operation mechanical or other resonance to increase frequency of the received impulses. The device most commonly used in a relay.

Air Condenser. One having air as its dielectric.

Alphabet or Code. See "Code."

Alternator. A rotating machine which converts mechanical energy into electrical energy, delivering at its terminals one or more alternating E. M. F.'s (single phase or poly-phase).

Alternating Current. One which reverses its direction incessantly with time, whether periodic or aperiodic. (See also "Free Alternating Current," "Forced Alternating Current.")

Ammeter. A general measuring instrument indicating in amperes or fractions thereof.

Amplification. The ratio of the useful effect obtained by the signal system to the amplifier in the useful effect. (Strained and not a definition.)

Amplifier or Amplifying Relay. One which increases the effect of a local source of energy in accordance with the variations of received signals, and in general produces a larger signal than it could be obtained from the incoming energy alone.

Angular Velocity. A periodic alternating current in radians per second. 2 π times the frequency in cycles per second.

Antenna. A system of conductors designed for radiating or absorbing the energy of electromagnetic waves.

Antenna Resistance. The ohmic resistance in the entire antenna circuit.

The energy consumed in the antenna resistance constitutes a loss in the circuit of a radio receiver or transmitter.

Arc or Spark. See "Spark."

Arc Converter. An arc used in the conversion of alternating to pulsating direct current, or of the converse of it. (See "Alternating," "Pulsating Current.")

The first PROCEEDINGS of the Institute of Radio Engineers were published in 1913. The first paper to be published in these PROCEEDINGS was by Dr. Michael I. Pupin, later the fifth president of The Institute of Radio Engineers, entitled "A Discussion on Experimental Tests of the Radiation Law for Radio Oscillators." This paper was chosen from several unpublished papers which had been presented before The Wireless Institute.

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