

**THE NERVOUS SYSTEM  
AND ELECTRIC CURRENTS**

**Volume 2**

# THE NERVOUS SYSTEM AND ELECTRIC CURRENTS

## Volume 2

Proceedings of the Fourth Annual National Conference of the Neuroelectric  
Society, held in San Antonio, Texas, March 10-12, 1971

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## PREFACE

This second volume of the "Nervous System and Electric Currents" represents the collected papers of the Proceedings of the fourth annual national conference, organized by the Neuro-Electric Society. It will be held at the Convention Center, San Antonio, Texas, March 10-12, 1971.

The interests of the Neuro-Electric Society focus upon the measurement and quantification of neuro-electric phenomena, neuro-stimulation and recording techniques and procedures, and the applications of biomedical engineering to the furthering of our understanding about neural-behavioral processes.

These research papers further explore the influence of electrical currents on the neurophysiological correlates of the nervous system. The "central" nervous system is still the main focus of research. The use of transcranially applied electric currents in the production of electro-sleep and electro-anesthesia is the important practical clinical aspect of these interesting researches. However, a new emphasis is now also beginning to be placed on the effects of these applied currents to the "peripheral" nervous system.

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