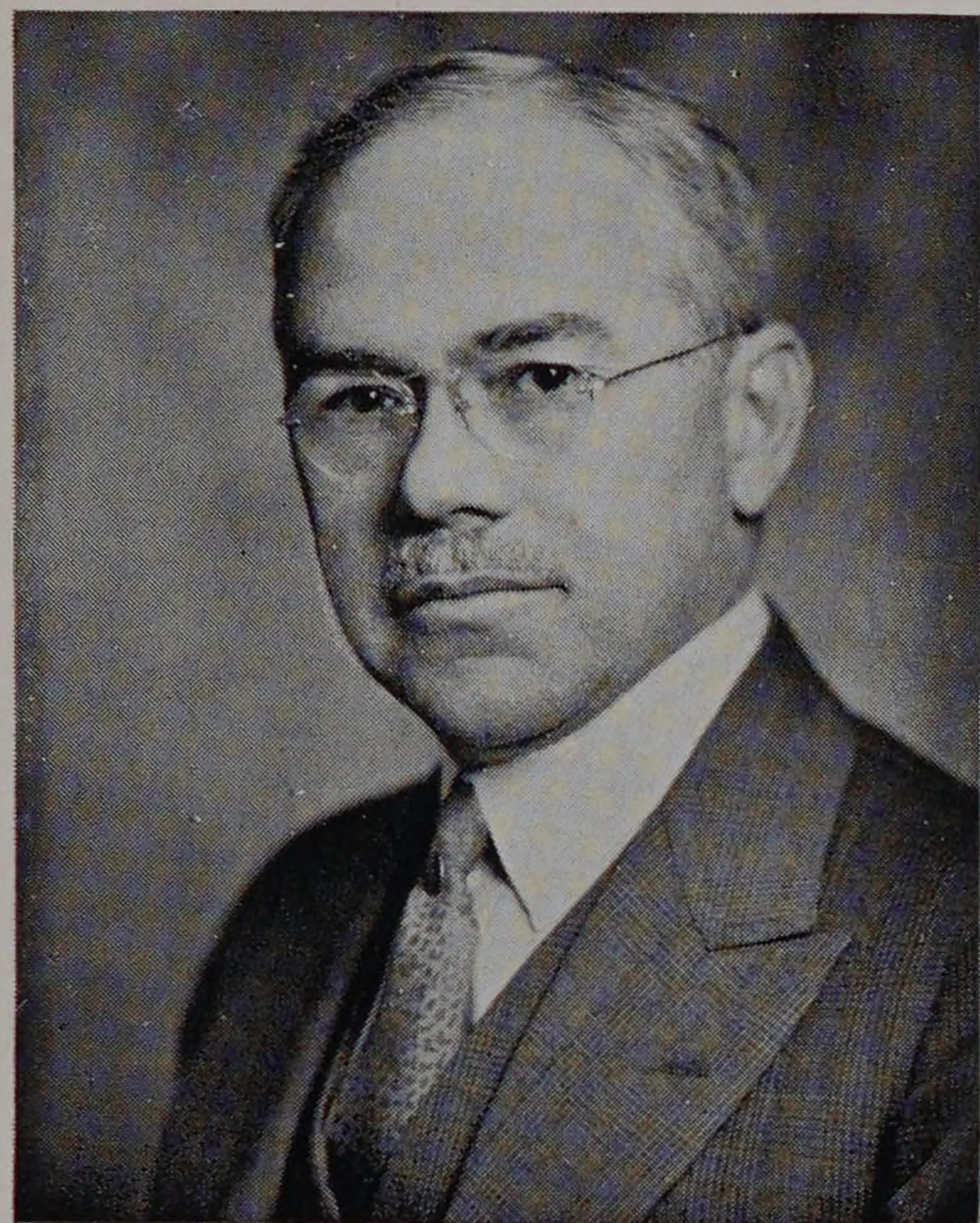


DEPARTMENT OF ELECTRICAL ENGINEERING



Ernest H. Freeman

No special gift of imagination is required in order to visualize the vast field of development which awaits the electrical engineer in the years which lie before us. The vacuum tube and electronic devices as elements in electrical circuits have alone established far horizons of their own—it being scarcely necessary, of course, to point out that there is hardly one of the older divisions of electrical engineering which does not afford unlimited opportunity for future research and for the constructive application of new principles and new methods of analysis.

These considerations provide a background for various adjustments which have been made in this Department during the year 1933-34—changes which reflect further progress in carrying out the spirit and the intention of the Armour Development Plan. New courses added to the curriculum were

Engineering Analysis, for juniors, and Alternating Current Circuits, for seniors—both taught by Associate Professor Richardson. It is planned to extend these courses next year, and to increase the time allotted to them in order that the scope of the work can be correspondingly broadened.

The year also saw the inauguration of graduate work, and advanced courses offered graduate students included Transmission Lines, by Professor Freeman; Engineering Applications, by Professor Moreton; and Electricity and Magnetism, Alternating Current Networks, and Graduate Laboratory, by Associate Professor Richardson. Three graduate students enrolled in the Department were occupied with practical problems assigned them by Chicago industrial organizations. The tuition of two of the students was paid by the companies for which their thesis work was done. This plan of having the graduate students work upon problems provided by industry was frankly an experiment. Indications of its success are found, however, in the reactions of two of the sponsors. One of these has referred to his expenditure as an excellent investment, and one which he is anxious to repeat next year. A second was able to effect a substantial saving in one of his products as a result of work done in his behalf by the sponsored student.

The Department of Electrical Engineering looks forward today with eagerness, and it extends a cordial welcome to all students with whom it can share its enthusiasm for the scientific conquests which lie ahead.