

XXIX. CIRCUIT THEORY AND DESIGN

Prof. P. Penfield, Jr.
Prof. R. P. Rafuse
Prof. C. L. Searle

RESEARCH OBJECTIVES

We wish to investigate circuits containing devices that are nonlinear and/or time-variant and/or active, including transistors, tunnel diodes, and varactor diodes. Such investigations include (a) theoretical and experimental behavior of parametric amplifiers, frequency multipliers, mixers, transistor and tunnel-diode circuits; and (b) theoretical study of those properties that are invariant under certain types of imbeddings, in part by means of a general voltage-current conservation theorem.

P. Penfield, Jr., R. P. Rafuse, C. L. Searle

