

# Download Computer Analysis Of Circuits

By observing the results of a computer simulation, a student can gain an intuitive grasp of circuit behavior without the intimidation of abstract mathematical analysis. Circuit Simulation with SPICE To simulate circuits on computer, I make use of a particular program called SPICE , which works by describing a circuit to the computer by means of a listing of text. A computer program for modified nodal analysis of integrated circuits is described. It performs (1) nonlinear dc analysis to obtain quiescent operating points of various active devices, (2) small ...48 IE E, TRANSACTIONS ON INDUSTRIAL ELECTRONICS AND CONTROL INSTRUMENTATION, VOL. I 'Ci-22, NO. 1, FEBRUARY 1975 decrease in R which increases the break frequency as LIMITATIONS required. Computer analysis of nonlinear circuits, excluding radiation (CANCER) Abstract: CANCER is a reasonably general circuit analysis program especially suited to integrated-circuit simulation. The program provides for the analysis of large circuits in the following four modes of operation: nonlinear d.c., large-signal transient, small-signal a.c., and thermal and shot noise.