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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 42 pages. Original publisher: Adelphi, MD : Army Research Laboratory, 2010 OCLC Number: (OCoLC)574526657 Subject: Electronic circuits. Excerpt: . . . where the voltage drops are given by $t \, dl \, V \, L \, V \, RI \, V \, IdL \, R \, C \, dt \, C \, 0$ This equation can be solved easily; however, from a numerical standpoint it has the problem that it has an integral in it, which means it is not a differential equation. Taking the derivative if equation 3 corrects this: $2 \, dV \, d \, l \, dl \, 1 \, 0 \, L \, R \, I \, 2 \, dt \, dt \, C \, dt$ Although this is easily solved analytically, it is not first order and hence is problematic for numerical solution. A new choice of state variables fixes this: since the current is related to the charge on the capacitor by $dQ \, I \, dt$ we can write the following system of equations: $dQ \, I \, dt \, dl \, 1 \, R \, 1 \, V \, I \, Q \, 0 \, dt \, L \, L \, LC \, Q$ We now have a state vector x to describe the circuit, and a vector function $II \, F \, x \, 1 \, R \, 1 \, V \, I \, Q \, 0 \, L \, L \, LC$ which a simulator can accept. It is fortunate that this choice of state variables also works for the NLTL. The appendix contains the derivation of the set of network equations for the Brown-Ikezi circuit for an NLTL with an arbitrary number of stages. This set of equations has been coded into Mathematica, and seems to work well - circuits with over a thousand stages have been simulated without numerical problems. 3. 3 The Method of Partial Charges In writing the network equations for this circuit, it is useful to generalize the state variables discussed above. As discussed in the appendix, a natural way to treat...



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