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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 dI 1 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 I dI 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 dI 1 R 1 V I Q 0 dt L L LCQ We now have a state vector x to describe the circuit, and a vector functionII F x1 R 1V I Q0 L L LC which a simulator can accept....

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