A Circuit Analysis using the Node Method ces Motivation: Often, the number of nodes in a circuit is 13 much smaller than that of branches. Node V2 method thus involves fewer number of variables, which means it is often easier definition of node voltage: vab TVab = Va - Vb Inode voltage Procedure of the noole method: -1° select a reference node (接地, v=0) 2° assign noole voriables 別に 3° apply KCL 製 4' solve equations 5° back-solve the needed branch voltage/current. Example: find Vo=? if using the basic method, 1 km # 1 km 5 v 0 0 0 6 v 1, = VI ie hove 12 = V2 142 5v D - \$6v $V_1 = -0.5$ $V_2 = 0.5$ using the node mothod, ハナルマモの ラ U, + U2=0 1 kn + 6-8 =0 using KVL, V0=6-V2 (KVL) 5-47-6=0 e = 5.5V Vo=e-0=5.5V =5.5 V すび, -じュニート

