





EECS 42 Intro. Digital Electronics Fall 2003	Lecture 14: 10/11/03 A.R. Neureuther
Method 1: Use $V_{oc}$ and $I_{sc}$ as usual to find $V_T$ and $R_T$ (and $I_N$ as well)	
Method 2: To find $R_T$ by the "ohmmeter method" turn off only the <i>independent</i> sources; let the dependent sources just do their thing.	
See examples in text (such as Example 4.3).	
This method also works when computing incremental signals such as a change in the source $V_S$ (given by $\Delta V_S$ or $v_S$ ) produces a change in $V_{IN}$ or $V_{OUT}$ , (given by $\Delta V_{IN}$ or $\Delta V_{OUT}$ also written $v_{IN}$ and $v_{OUT}$ ), and their ratio called the small-signal gain ( $\Delta V_{OUT} / \Delta V_S$ ) or ( $v_{OUT} / v_S$ )	

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