

TELLEGEN'S THEOREM

STATEMENT: This theorem states that “any time ‘t’ the algebraic sum of instantaneous power in ‘n’ branches of any network is zero, if KCL and KVL are satisfied.” Mathematically

$$\sum_{k=1}^n v_k i_k = 0$$

Where v_k = instantaneous voltage drop in each branch
 i_k = instantaneous current in each branch

PROOF: Consider the network shown in fig.1

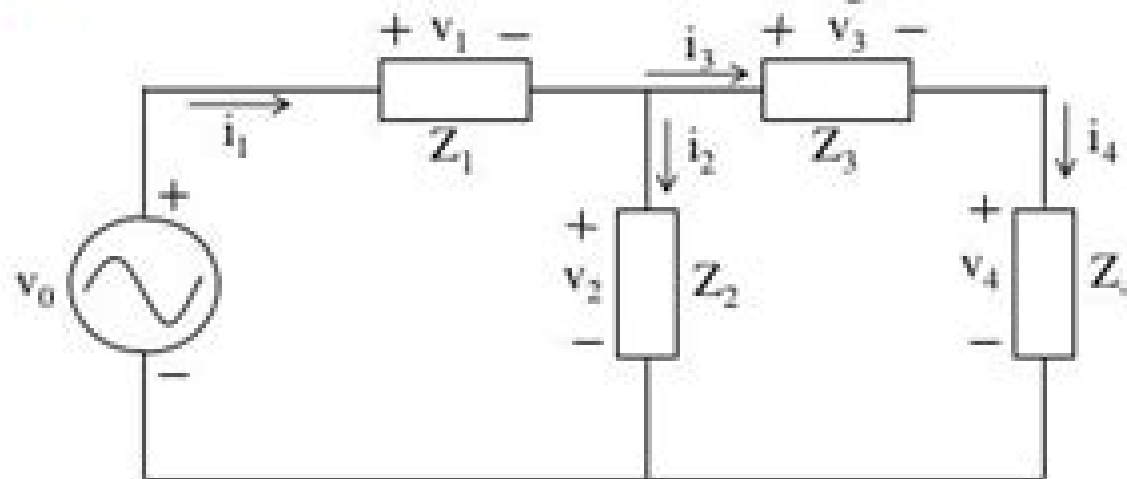


Fig. 1

Where

$$v_1 = 6V, v_2 = 4V,$$

$$v_3 = 3V, v_4 = 1V$$

$$i_1 = 5A, i_2 = 2A,$$

$$i_3 = 3A, i_4 = 3A$$

Tellegens Theorem And Electrical Networks

**Paul Penfield, Robert Spence, Simon
Duinker**



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Tellegen's Theorem and Electrical Networks Paul Penfield, Robert Spence, Simon Duinker, 1970 B D H Tellegen's theorem is still not as widely known as its utility warrants The authors of this monograph set out to correct this neglect

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