

Active Current, Reactive Current, Kirchhoff's Laws and Tellegen's Theorem

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The relations between the basic laws of circuit theory (Kirchhoff's laws and the conservation of generalized power) are discussed with respect to the active and reactive current components. It is shown that the active and reactive currents do not satisfy Kirchhoff's current law. It is proved that this is not in contradiction with the property that the active and reactive powers satisfy the conservation property.



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