

Introduction to Circuit Elements

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1.1. INTRODUCTION

An electric network is any possible interconnection of electric circuit elements, while an electric circuit is a closed energised network. (An electric circuit is characterised by currents (I) in the elements and voltages (V) across them). Therefore, all the circuits are networks, while a network is not necessarily a circuit, e.g. T-network.

1.2. CIRCUIT ELEMENTS

Circuit elements may be

- (i) Unilateral or bilateral
- (ii) Lumped or distributed
- (iii) Linear or non-linear
- (iv) Active or passive

1.2.1. Unilateral or Bilateral Elements

A unilateral element has different relations between voltage and current for the two possible directions of current. Example are diodes, metal rectifiers etc.

On the other hand, the voltage and current relation is the same for bilateral elements for current flowing in either direction. Examples are resistors, inductors and capacitors.

1.2.2. Lumped or Distributed Elements

A lumped element is the element which is separated physically, like resistors, capacitors and inductors.

On the other hand, the distributed elements are those which are not separable for analytical purposes. Examples are those are transmission lines, in which the resistance, inductance and capacitance are distributed along its length.

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