

nilsson riedel electric circuits pdf

Electricity is the set of physical phenomena associated with the presence and motion of matter that has a property of electric charge. In early days, electricity was ...

Electricity - Wikipedia

In electronics, a current divider is a simple linear circuit that produces an output current (I_X) that is a fraction of its input current (I_T). Current division ...

Current divider - Wikipedia

1 $\frac{I_X}{I_T} = \frac{R_T}{R_X + R_T}$ (where R_T is the total resistance and R_X is the resistance of the branch containing the load X)
 $\frac{I_X}{I_T} = \frac{R_2}{R_1 + R_2}$ (where R_1 and R_2 are the resistances of the two parallel branches)
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^ Nilsson and Riedel, p.308. ^ Agarwal and Lang, p.641. ^ Irwin, p.532. ^ Agarwal and Lang, p.648. ^ 5.0 5.1 Nilsson and Riedel, p.295. ^ Humar, pp.223-224.

RLC $\frac{d^2q}{dt^2} + \frac{1}{LC}q = \frac{E}{L}$ (where q is the charge, L is the inductance, C is the capacitance, and E is the electromotive force)

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