Subject: Re: AC cct troubles
Posted by Wayne Parham on Sat, 15 Nov 2003 17:07:40 GMT

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What I've always done was to first find all reactive impedances. Then one can find total impedance which will allow finding total current. For simple circuits having only a single resistance and reactance, there are simplified formulas; Complex networks require calculation using vectors. You can also find current through each branch, by knowing reactive impedance and voltage across the node. But as you know, the sum of all branch currents will not be equal to total current because of power factor, i.e. phase angle.