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Circuit Analysis I With MATLAB Applications

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Circuit Analysis I with MATLAB® Applications

Steven T. Karra

$$\left(\frac{35}{50} - j\frac{3}{50}\right)V_1 - \frac{1}{5}V_c = 1\angle 0^\circ$$
$$-\frac{1}{10}V_1 + \left(\frac{1}{10} + j\frac{1}{10}\right)V_c = 0$$

```
G=[35/50 -j3/50 -1/5 1/10+(1/10)]; h=[1 0]; V=G\h;
Ix=5*V(2,1)/4;
magIx=abs(Ix); theta=angle(Ix)*180/pi;
fprintf('n'); disp('Ix = '); disp(Ix);
fprintf('magIx = %4.2f A \', magIx); fprintf('theta = %4.2f deg \', theta);
fprintf('n'); print('n');
```

$I_x = 2.1176 - 1.7546i$ $\text{mag}I_x = 2.75 \text{ A}$ $\text{theta} = -39.64 \text{ deg}$

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Synopsis

This introduction to the basic principles of electrical engineering presumes basic knowledge of differential and integral calculus and physics. Students learn the fundamentals of electrical circuit analysis and are introduced to MATLAB-software used to write efficient, compact programs to solve electrical engineering problems of varying complexity. For additional information, please visit the Orchard Publications site.

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Customer Reviews

Circuit Analysis I With MATLAB Applications by electrical engineer and educator Steven T. Karris (Adjunct Professor, UC Berkeley Extension) is a highly technical but accessibly written, college-level textbook for teaching engineering students how to analyze potential difference of voltage in a wide variety of increasingly complex circuits and much more. Embodying advanced math and physics material (all theorems and definitions are accompanied by carefully detailed and presented explanations and illustrations), the numerous exercises and practical applications are specific to the MATLAB software. Circuit Analysis I With MATLAB Applications is highly recommended as a scholarly text intended for (and appropriate to) undergraduate as well as advanced students in the field of electrical engineering.

These books, this one and Part 2, are great for anyone who wishes to learn Circuit Analysis. Both books are straight and to the point in explaining theory. Ample amounts of examples and problems

test one's understanding of this material. The integration of MATLAB use into the subject is well done. Anyone should be pleased at using these books as either a main textbook or as a self-study supplement.

It's concise and well-organized. Although someone may think it is too easy, I think this one is a good reference for engineering guy who just don't wanna use a tedious thick book and for whom wants to do revision purpose.

Steven, you have done a wonderful contribution to our profession with so many nice books. This one is also really great. My sincere congratulations !

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