

Chapter 4: AC Network Analysis – Instructor Notes

The chapter starts by developing the dynamic equations for energy storage elements in Section 4.1. The analogy between electrical and hydraulic circuits (*Make The Connection: Fluid (hydraulic) Capacitance*, p. 130, *Make The Connection: Fluid (hydraulic) inductance*, p. 139, Table 4.2, p. 139) is introduced early to permit a connection with ideas that may already be familiar to the student from a course in fluid mechanics, such as mechanical, civil, chemical and aerospace engineers are likely to have already encountered.

Next, signal sources are introduced in Section 4.2, with special emphasis on sinusoids. The material in this section can also accompany a laboratory experiment on signal sources. Section 4.3 introduces the formulation (and solution) of circuits described by differential equations, focusing on sinusoidal excitations. The emphasis placed on sinusoidal signals is motivated by the desire to justify the concepts of phasors and impedance, which are introduced next, in Section 4.4. This section covers phasor notation, impedance and admittance. It is followed by Section 4.5, which extends the circuit analysis methods developed in Chapter 3 to AC circuits.

The author has found that presenting the impedance concept early, is an efficient way of using the (invariably too short) semester or quarter. Chapter 4 is specifically designed to permit a straightforward extension of the resistive circuit analysis concepts developed in Chapter 3 to the case of dynamic circuits excited by sinusoids. The ideas of nodal and mesh analysis, and of equivalent circuits, can thus be reinforced at this stage. The treatment of AC circuit analysis methods is reinforced by the usual examples and drill exercises, designed to avoid unnecessarily complicated circuits.

The homework problems in this chapter are mostly mathematical exercises aimed at mastery of the techniques. The 1st Edition of this book includes 67 end-of-chapter problems, in addition to 15 fully solved examples.

Learning Objectives for Chapter 4

1. Compute currents, voltages and energy stored in capacitors and inductors.
2. Calculate the average and root-mean-square value of an arbitrary (periodic) signal.
3. Write the differential equation(s) for circuits containing inductors and capacitors.
4. Convert time-domain sinusoidal voltages and currents to phasor notation, and vice-versa, and represent circuits using impedances.

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