

Ch 10, p1

10.1 Introduction

There are usually three steps to analyzing an AC circuit. These are based on the fact that frequency domain analysis is simpler since it can make use of the nodal and mesh techniques developed for DC.

- 1. Transform the circuit to the phasor or frequency domain,
- 2. complete the analysis using the usual circuit techniques (node analysis, mesh analysis, superpostion, etc.), then
- 3. transform the phasor result back to the time domain.



Ch 10, p3





Ch 10, p5





Ch 10, p7





Ch 10, p9









Ch 10,p13





Ch 10, p15





10.7 Op Amp AC Circuits

As long as the op amp is working in the linear range, frequency domain analysis can proceed just as it does for other circuits.

It is important to keep in mind the two qualities of an ideal op amp:

- no current enters ether input terminals.
- the voltage across its input terminals is zero with negative feedback.

