# Sedra Smith Microelectronic Circuits 5th Edition Solutions

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DC and AC load lines. Semiconductor circuits typically have both DC and AC currents in them, with a source of DC current to bias the nonlinear semiconductor to the correct operating point, and the AC signal superimposed on the DC. Load lines can be used separately for both DC and AC analysis. The DC load line is the load line of the DC equivalent circuit, defined by reducing the reactive ...

#### Load line (electronics) - Wikipedia

A bipolar junction transistor (bipolar transistor or BJT) is a type of transistor that uses both electron and hole charge carriers. In contrast, unipolar transistors, such as field-effect transistors, only use one kind of charge carrier. For their operation, BJTs use two junctions between two semiconductor types, n-type and p-type.. BJTs are manufactured in two types, NPN and PNP, and are ...

#### Bipolar junction transistor - Wikipedia

The circuit is simulated in the Cadence Virtuoso tool of the gpdk180 nm CMOS process. The length and width ratios of MOS transistors availed for the internal structure of VDTA are presented in Table 1. Fig. 3 avails the supply rail voltage of  $\pm$  0.9 V and the biasing current of 150  $\mu$ A (I B1 = I B2 = I B3 = I B4). An input square wave of amplitude 1 V, frequency of 1 kHz is applied to the ...

#### An integrator circuit using voltage difference ...

| 3. OPAMP 1 Simulation. Simulation | on $\square\square$ $\square\square\square$ $\square\square$ $\square\square\square$ . DC Gain = 89dB-3dB Frequency = 9kHz. |
|-----------------------------------|---|
| Unitgain Frequency = 10 MHz. □□   | ]   |
| Loop [][] [][][] [][].            |   |

### **Two-stage OPAMP -1:** [][] [][]

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□□ □□. Sedra/Smith. Microelectronic Circuits 5th edition.Oxford University Press.

2004.ISBN-0-19-514252-7. Chapter8: FeedBack

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