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By Paul E. Gray;etc.

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Transistor circuit symbols. A Darlington pair is two transistors connected together to give a very high current gain. In addition to standard (bipolar junction) transistors, there are field-effect transistors which are usually referred to as FETs. They have different circuit symbols and properties and they are not covered by this page. Rapid Electronics: transistors. Transistor currents. The diagram shows the two current paths through a transistor. NPN and PNP transistors are connected differently as shown in the diagrams below but the calculations and properties required are the same for both types of transistor. NPN transistor switch load switched on when IC output is high. PNP transistor switch load switched on when IC output is low. Transistors: Bipolar Junction Transistors (BJT). General configuration and definitions. The transistor is the main building block "element" of electronics. It is a semiconductor device and it comes in two general types: the Bipolar Junction Transistor (BJT) and the Field Effect Transistor (FET). Here we will describe the system characteristics of the BJT configuration and explore its use in fundamental signal shaping and amplifier circuits. For a detailed description of the BJT structure see: Jaeger and Blalock, *Microelectronic Circuit Design*, McGraw Hill. Here it is sufficient to say that the structure as shown on Figure 1 is not symmetric. The n and p regions are different both geometrically and in terms of the doping concentration of the regions. Transistors are simple devices with complicated behavior. In order to ensure the reliable operation of circuits employing transistors, it is necessary to scientifically model the physical phenomena observed in their operation using transistor models. There exists a variety of different models that range in complexity and in purpose. Transistor models divide into two major groups: models for device design and models for circuit design.