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Transistor circuits **A simple guide to electronic components.** Colpitts Oscillator NPN Transistor Circuit 02 - Overview of Circuit Components - Resistor, Capacitor, Inductor, Transistor, Diode, Transformer Base

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Transistor Parameters Use a transistor curve tracer to measure the small-signal current gain,  $\beta$ , of the 2N4401 and 2N3904 NPN BJTs for collector currents of 1mA, 3mA, and 5mA that were used above. Resistance Measurement Use the DMM

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Measurements Leach Donald P 4.3.3 Transistor  
Parameters Use a transistor curve tracer to  
measure the small-signal current gain,  $\beta$ , of  
the 2N4401 and

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(BJT) NOISE MEASUREMENTS 4.1 Object The  
objective of this experiment is to measure  
the mean-square equivalent input noise,  $v_{ni}^2$ ,  
and base spreading resistance,  $r_x$ , of  
some NPN Bipolar Junction Transistors (BJTs).

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4.2 Theory 4.2.1 Equivalent Input Noise It  
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essentially impossible. However, it can be determined from noise measurements. Base Spreading Resistance Figure 4.1: Circuit for measuring base spreading resistance. The base

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spreading resistance of a BJT is one of the more prickly parametersto accurately measure. It can be measured using the circuit shown in Fig. 4.1. If it is assumed that the

~~Chapter 4 Bipolar Junction Transistor (BJT)  
Noise Measurements~~

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4.3.3 Transistor Parameters Use a transistor  
curve tracer to measure the small-signal  
current gain,  $\beta$ , of the 2N4401 and 2N3904 NPN

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BJTs for collector current used above. 4.3.4  
Resistance Measurement Use the DMM (Digital  
Multimeter) or the LCR meter to measure the  
value of each resistor that was used. 4.3.5  
Measurement Bandwidth

## ~~4. BIPOLAR JUNCTION TRANSISTOR (BJT) NOISE MEASUREMENTS~~

In the measurement industry, a very crucial  
functional block is a Programmable Gain  
Amplifier (PGA). If you are an electronic  
enthusiast or a college student, you have  
probably seen a multimeter or oscilloscope  
measuring very small voltages very precisely



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because the circuit has a built-in PGA alongside a powerful ADC that helps with the precise measurement process.

## ~~Programmable Gain Amplifier using MOSFET and Transistor~~

Connect the base terminal of the transistor to the terminal marked positive (usually coloured red) on the multimeter; Connect the terminal marked negative or common (usually coloured black) to the collector and measure the resistance. It should read open circuit (there should be a deflection for a PNP transistor).

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~~How to Test a Transistor & Diode →  
Electronics Notes~~

A familiarity with Ohm's Law and voltage and current in simple DC-resistive circuits is helpful, but not required. This text, which now includes a two-color interior and performance objectives, emphasizes two of the most popular digital Integrated Circuit (IC) families—Transistor Transistor Logic (TTL) and Complementary Metal Oxide Silicon ...

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Remove the transistor from the circuit for accurate test results. Step 1: (Base to Emitter) Hook the positive lead from the multimeter to the to the BASE (B) of the transistor. Hook the negative meter lead to the EMITTER (E) of the transistor. For an good NPN transistor, the meter should show a voltage drop between 0.45V and 0.9V.

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