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Introduction

Outline

Acknowledgements

Moore's Law

Transistors

Scaling

Linear TimeInvariant

Highorder log domain

Internal nonlinear circuits

Translinear loops

The Bernoulli Family

Why Cochlear Implants

The inner ear

Bionic ear processors

Automatic gain response

Experimental results

Second chip

Neuromorphic electronics

Physiological models

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The Art of Electronics

ARRL Handbook

Electronic Circuits

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Do I Recommend any of these Books for Absolute Beginners in Electronics

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Diodes

The Thevenin Theorem Definition

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Operational Amplifiers

Operational Amplifier Circuits

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Intro

Quantum Hype

How Does a Quantum Computer Work?

Problems With Quantum Computers

Quantum Winter

What Does It Mean?

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choose a value for this emitter resistor

design a common emitter amplifier

turned the meter to the diode test position

choose the values of r_1 and r_2

supply about 10 times the required base current to this transistor

use about 4 volts across the transistor

test the circuit

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