## PRINCIPLES AND CIRCUITS

### Field-Effect Transistors

by Ray Marston

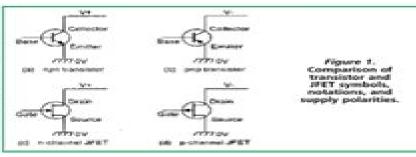
Part 1

Ray Marston explains FET (Field-Effect Transistor) basics in this opening episode of this new four-part series.

ield-Effect Transistors (FETs) are unipolar devices, and have two big advantages over bipolar transistors; one is that they have a near-infinite input resistance and thus offer nearinfinite current and power gain; the other is that their switching action is not marred by charge-storage problems, and they thus outperform most bipolars in terms of digitall switching speeds.

Several different basic types of FETs are available. and this opening episode looks at their basic operating principles. Parts 2 to 4 of the series will show practical ways

of using FETs.

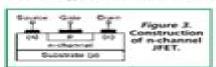


#### FET BASICS

An FET is a three-terminal amplifying device. Its terminals are known as the source, gate, and drain, and correspond respectively to the emitter, base, and collector of a normal transistor. Two distinct families of FETs are in general use. The first of these is known as "junction-gate" tupes of FETs; this term generally being abbreviated to either JUGFET or (more usually) IFET.

The second family is known as either "insulated-gate" FETs or Metal Oxide Semiconductor FETs, and these terms are generally abbreviated to IGFET or MOSFET, respectively. 'N-channel' and 'p-channel' versions of both types of FET are available. just as normal transistors are available in non and pnp versions. Figure I shows the symbols and supply polarities of both types of bipolar transistor, and compares them with both JET versions.

Figure 2 illustrates the basic construction and operating principles of a simple n-channel JFET. It consists of a bar of n-type semiconductor mate-



rial with a drain terminal at one end and a source terminal at the other. A p-type control electrode or gate surrounds (and is joined to the surface of) the middle section of the n-type bar, thus forming a p-n junction.

In normal use, the drain terminal is connected to a positive supply and the gate is biased at a value that is negative (or equal) to the source voltage, thus reverse-biasing the JFET's internal pin junction, and accounting for its very high input impedannount.

With zero gate bias applied, a current flow from drain to source via a conductive 'channel' in the n-tupe bar is formed. When negative gate bias is applied, a high resistance region is formed within the junction, and reduces the width of the n-type conduction channel and thus reduces the magnitude of the drainto-source current. As the gate bias is increased, the "depletion" region spreads deeper into the n-type channel, until eventually, at some 'pinchoff" voltage value, the depletion layer becomes so deep that conduction

Thus, the basic IFET of Figure 2. passes maximum current when its gate bias is zero, and its current is reduced or "depleted" when the gate bias is increased. It is thus known as a 'depletion-type' n-channel JFET. A p-channel version of the device can (in principle) be made by simply transposing the p and n materials.

#### JEET DETAILS

Figure 3 shows the basic form of construction of a practical n-channel JETT: a p-channel JETT can be made by transposing the p and n materials. All JFETs operate in the depletion mode, as already described. Figure 4. shows the typical transfer characteristics of a low-power nichannel JFET, and illustrates some important features of this type of device. The most important characteristics of the IFET are as follows:

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Figure 5.

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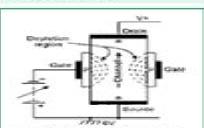


Figure 2. Basic structure of a simple m-channel JFET, showing how channel width is controlled via the gate bias.

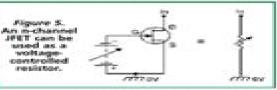
an n-channel FET, we for a p-channel FET), a drain current the flows and can be controlled via a gate-to-source bias voltage Vos-

(2). In is greatest when Vox = 0. and is reduced by applying a reverse bias to the gate (negative bias in an n-channel device, positive bias in a p-type). The magnitude of V<sub>cs</sub> needed to reduce In to zero is called the pinch-off' voltage, V<sub>p</sub>, and typically has a value between 2 and 10 vots. The magnitude of Ip when Vox = 0 is denoted foots and typically has a value in the range 2 to 20mA.

CIO. The JPET's gate-to-source junction has the characteristics of a silicon diode. When reverse-biased. gate leukage currents (fox) are only a couple of nA (1nA = .001µA) at room temperature. Actual gate signal currents are only a fraction of an nA, and the input impedance of the gate is typically thousands of megohers at low frequencies. The gate junction is shunted by a few pf. so the input impedance falls as fre-

If the IFET's gate to source junction is forward-biased, it conducts like a normal silicon diode. If it is encessively. reverse tolarsed,

give been a soften as to the second 40 Ĭ Figures 4. Water of Hills idealized tenendar. characteristics. 11.55 200 colf agent n-channel. The districtive country voltage. Water Driverson SECT.



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Radio Frequency Transistors Norman Dye, Helge Granberg, 2001 This newly revised edition adds two entirely new chapters one of LDMOS high power RF transistors and how they differ from bipolars and TMOS FETs etc as well as another chapter on designing high power RF amplifiers using LDMOS FET Principles, Experiments & Projects Edward M. Noll, 1968 New IC FET Principles and Projects Ken W. Sessions, Don Tuite, 1973 F. E. T. Principles, Experiments and Projects Edward Mowday Noll, 1968 Fet Modeling for Circuit Simulation Dileep A Divekar, 1988-03-31

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