

Sedra Smith Microelectronic Circuits 5th Edition

I_{C} and the collector current (V_{CE}) with no input signal applied. Bias circuits for BJTs are discussed in this article.

Bipolar transistor biasing 73-75 A. Second Edition, Cambridge University Press, 1989, ISBN 0-521-37095-7, pp. Smith (2004). S. Sedra & K. New Biasing is the setting of the DC operating point of an electronic component. Microelectronic Circuits (5th ed. C. For bipolar junction transistors (BJTs), the operating point is defined as the steady-state DC collector-emitter voltage (V_{CE}).

Bipolar junction transistor New York: Oxford. Sedra; K. C. S. A bipolar transistor allows a small current injected at one of its terminals to control a much larger current between the remaining two terminals, making the device capable of amplification or switching. ISBN 978-0-19-514251-8 A bipolar junction transistor (BJT) is a type of transistor that uses both electrons and electron holes as charge carriers. In contrast, a unipolar transistor, such as a field-effect transistor (FET), uses only one kind of charge carrier. p.). 509. Microelectronic Circuits (5th ed. February 7, 2009. A. Retrieved August 10, 2016. Smith (2004)

BJTs use two p–n junctions between two semiconductor types, n-type and p-type, which are regions in a single crystal of material. The junctions can be made in several different ways, such as changing the doping of the semiconductor material as it is grown, by depositing metal pellets to form alloy junctions, or by such methods as diffusion of n-type and p...

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