REFERENCES ON FETS, HBTs, AND QUANTUM STRUCTURES

FETs
I. Thayne, I. Elgaid, and G. Ternent, “Devices and fabrication technology [RFICs and MMICs],” in RFIC-and-MMIC-design-and-technology. ed. by I. D. Robertson and S. Lucyszyn (IEEE, London, UK, 2001) 31-81. This entire book is a good recent overview of the design and fabrication state-of-the-art relative to microwave integrated circuits. Also includes in this chapter a good overview of various heterostructure device technologies.

De Carvalho, N. B.; Pedro, J. C., ”Modeling MESFET’s for nonlinear analog circuits,” Analog Integrated Circuits and Signal Processing 33 (Nov. 2002) 95-106. A recent article showing some of the modeling concerns relative to MESFETs.


R. J. Trew, ”SiC and GaN transistors - is there one winner for microwave power applications?,” Proc. IEEE 90 (June 2002)1032-1047. Another look at power FET research using wide bandgap compound semiconductors.


See last two items in HBT set below.

**Heterojunction Bipolar Transistors (HBTs)**


Robertson, I. D., and S. Lucyszyn, RFIC and MMIC design and technology (Institute of Electrical Engineers, Herts, UK, 1988) ISBN 0 85296 786 1. *Older reference but still relevant in general issues and even fabrication technology. Deals with FETs and HBTs.*

**Quantum Structures**

