

Mosfet Hybrid Amplifier 2000w Circuit Diagram

Atul P. Godse



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Electronic Circuits and Applications Atul P. Godse, 2008 Diode Applications Voltage multiplier circuits Working and comparison of voltage doubler tripler and voltage quadrupler configurations Limitations of voltage multiplier circuits Effect of frequency on load regulation Clipping and clamping circuits Series and parallel forms of clipping circuits Biased clipper their operation and transfer characteristics Clamping circuits MOSFET Applications MOSFET in VLSI V I characteristic equation in terms of W L ratio MOSFET scaling and small geometry effects MOSFET capacitances Modeling MOS transistors using SPICE CMOS inverter Static characteristics Noise margin threshold voltage Layout and latch up prevention Other logic gates NAND and NOR gates Objective To study Power MOSFET and Power BJT devices and their data sheet specifications Power MOSFET Construction Lateral double diffused MOSFET VMOSFET Drive requirements Comparison with power BJT One example of drive circuit for POWER MOSFET Power BJT Power BJT construction Data sheet specifications Thermal resistance Second breakdown Safe operating area SOA Thermal runaway BJT as a switch in display and relay drive applications Drive considerations Anti saturation circuits Comparison with POWER MOSFET Large signal AF BJT amplifiers Block schematic of AF amplifier Classes of power amplifiers Class A Class B Class AB An overview and applications of Class C and Class D amplifiers Class A with resistive load Transformer coupled class A amplifier Class B Push pull Class AB Complementary symmetry and Quasi complementary configurations Efficiency analysis for Class A transformer coupled amplifier Class B push pull amplifiers Comparison of efficiencies of other configurations Distortions in amplifiers concept of Total Harmonic Distortion THD High frequency small signal BJT amplifiers Behavior of transistor at high frequencies Modified T equivalent circuit High frequency hybrid CE amplifier model CE short circuit current gains for T and hybrid models Definitions and derivations for and Amplifier bandwidth taking into account source and load resistances Techniques to improve bandwidth Single tuned Double tuned and stagger tuned amplifiers Unloaded and loaded Q Effect of staggering on bandwidth no derivations Feedback amplifiers and oscillators Concept of feedback Negative and positive feedback Classification of amplifiers based on feedback topology Voltage Current Transconductance and Transresistance amplifiers Transfer gain with feedback Advantages and disadvantages of negative feedback Effect of feedback on input and output impedances and bandwidth of an amplifier Analysis of one circuit for each feedback topology Oscillators Oscillator startup mechanism need for amplitude limiting Study of following oscillator circuits using FET Derivations not expected LC oscillators General form of LC oscillator Hartley oscillator Colpitts oscillator Clapp oscillator Crystal oscillator Crystal clock Linear voltage regulators and voltage references Block schematic of linear regulators Emitter follower regulator Transistor series regulator and its analysis for performance parameters 3 terminal floating dual and adjustable regulators Method of boosting output current using external series pass transistor Performance parameters Load and Line regulation Ripple rejection Output resistance and efficiency Protection circuits Reverse polarity protection over current fold back current

limiting over voltage protections Important data sheet specifications of linear regulators Voltage references their peculiarities and applications RF and Microwave Power Amplifier Design Andrei Grebennikov,2004-09-15 This is a rigorous tutorial on radio frequency and microwave power amplifier design teaching the circuit design techniques that form the microelectronic backbones of modern wireless communications systems Suitable for self study corporate training or Senior Graduate classroom use the book combines analytical calculations and computer aided design techniques to arm electronic engineers with every possible method to improve their designs and shorten their design time cycles *Power MOSFET Design* B. E. Taylor,1993-05-24 Concentrates on the actual design philosophy covering the driving and behavior of these devices Topics include the driving and protection of all MOSFET structures from conventional to current sensing devices and those with in built conductivity modulation Avoids the use of complex mathematics and minimizes the number of equations *VMOS Projects* R. A. Penfold,1981

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