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Electronics 1, Lec 42, Op Amp Circuits

1 Microelectronics *MOSFET Circuits in*

DC MOSFET Amplifiers - 04 Common

Drain Amplifier Configuration (Source

Follower) *Magnetic Circuits 1:*

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Magnetic Fields ??????? ??????????????

1: ?????????? ?????????????? Lecture 1 -

Introduction to RF Design Tradeoffs

Fading Diversity.flv ?????????????:

???????? ?????? --Transistor(2)

MOSFET Single Stage Amplifiers

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Characteristics II Razavi Electronics 1,

Lec 37, Common-Source Variants

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translating the spectrum back to zero center frequency is necessary. For example, as depicted in Fig.

1.4(a), multiplication by a sinusoid, $A \cos(2\pi f_c t)$, translates the spectrum to left and right by $\pm f_c$

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Step 1 of 2 A microprocessor contains 100 million transistors. In a microprocessor, the power dissipated by each transistor is.

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"One salient feature of this book is its synthesis- or design-oriented approach. Rather than pulling a circuit out of a bag and trying to analyze it, I set the stage by stating a problem that we face in real life (e.g., how to design a cellphone charger). I then attempt to arrive at a solution using basic

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"analysis by inspection." This "mentality" is created in two steps. First, the behavior of elementary building blocks is formulated using a "verbal" description of each analytical result (e.g., "looking into the emitter, we see $1/g_m$ "). Second, larger circuits are decomposed and "mapped" to the

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Two chapters on integer-N and fractional-N synthesizers, including the design of frequency dividers Power amplifier principles and circuit topologies along with transmitter architectures, such as polar modulation and outphasing

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With the exponential growth of the number of Internet nodes, the volume of the data transported on the backbone has increased with the same trend. The load of the global Internet backbone will soon increase to tens of terabits per second. This indicates that the backbone bandwidth

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Requirements will increase by a factor of 50 to 100 every seven years.

Transportation of such high volumes of data requires suitable media with low loss and high bandwidth. Among the available transmission media, optical fibers achieve the best performance in terms of loss and bandwidth. High-

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speed data can be transported over hundreds of kilometers of single-mode fiber without significant loss in signal integrity. These fibers progressively benefit from reduction of cost and improvement of performance.

Meanwhile, the electronic interfaces used in an optical network are not

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capable of exploiting the ultimate bandwidth of the fiber, limiting the throughput of the network. Different solutions at both the system and the circuit levels have been proposed to increase the data rate of the backbone. System-level solutions are based on the utilization of wave-

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division multiplexing (WDM), using different colors of light to transmit several sequences simultaneously. In parallel with that, a great deal of effort has been put into increasing the operating rate of the electronic transceivers using highly-developed fabrication processes and novel circuit

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"The increasing demand for high-speed transport of data has revitalized optical communications, leading to extensive work on high-speed device and circuit design. This book deals with the design of high-speed integrated circuits for optical communication transceivers. Building

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