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Behzad Razavi's Fundamentals of Microelectronics is a highly useful book to understand the working of diodes, transistors both BJT and MOSFET and amplifiers. It explains very well about small signal and large signal analysis. This is quite a good for Microelectronics which also discusses the practical applications.

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This book deals with mostly microelectronics while providing sufficient foundation for general (perhaps discrete) electronic systems as well. 1.2 Examples of Electronic Systems At this point, we introduce two examples of microelectronic systems and identify some of the important building blocks that we should study in basic electronics.

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Professor Razavi is a Fellow of IEEE, has served as an IEEE Distinguished Lecturer, and is the author of Principles of Data Conversion System Design, RF Microelectronics (translated to Chinese, Japanese, and Korean), Design of Analog CMOS Integrated Circuits (translated to Chinese, Japanese, and Korean), Design of Integrated Circuits for Optical Communications, and Fundamentals of Microelectronics (translated to Korean and Portuguese).

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the voltage drop across R_S is equal to the overdrive voltage of the transistor and $R_D = 200 \text{ k}\Omega$. The circuit shown in Fig. 7.84 must provide a voltage gain of 6, with C_S serving as a low impedance at the frequencies of interest. Assuming a power budget of 2 mW and an input impedance of 20 k Ω , design the circuit such that M_1 operates 200 mV away from the triode region.

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456. Chap. 9. Cascode Stages and Current Mirrors. $V_{CC} = 1.8 \text{ V}$. $V_{b2} = 1.2 \text{ V}$. $v_{out} = 1.5 \text{ V}$. $v_{in} = 1.5 \text{ V}$. Figure 9.57. unchanged. 31. Repeat Problem 30 if the lengths of both transistors are increased by a factor of N while the transistor widths and bias currents remain unchanged. 32.

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