

Microelectronic Circuit Design

Fourth Edition - Part III

Solutions to Exercises

Updated - 09/25/10

CHAPTER 10

Page 534

$$(a) A_p = |A_v||A_i| = 4 \times 10^4 (2.75 \times 10^3) = 1.10 \times 10^{11}$$

$$(b) V_o = \sqrt{2P_o R_o} = \sqrt{2(20mV)(16\Omega)} = 25.3 \text{ mV} \quad | \quad A_v = \frac{V_o}{V_i} = \frac{25.3 \text{ mV}}{0.005 \text{ mV}} = 5.06 \times 10^3$$

$$I_o = \frac{V_o}{R_o} = \frac{25.3 \text{ mV}}{16\Omega} = 1.58 \text{ mA} \quad | \quad I_i = \frac{V_i}{R_i + R_o} = \frac{0.005 \text{ mV}}{10k\Omega + 20k\Omega} = 0.167 \mu\text{A} \quad | \quad A_i = \frac{I_o}{I_i} = \frac{1.58 \text{ mA}}{0.167 \mu\text{A}} = 9.48 \times 10^6$$

$$A_p = \frac{P_o}{P_i} = \frac{25.3 \text{ mV}(1.58 \text{ mA})}{0.005 \text{ mV}(0.167 \mu\text{A})} = 4.79 \times 10^{10} \quad | \quad \text{Checking: } A_p = (5.06 \times 10^3)(9.48 \times 10^6) = 4.80 \times 10^{10}$$

$$A_{v,av} = 20 \log(5060) = 74.1 \text{ dB} \quad | \quad A_{i,av} = 20 \log(9.48 \times 10^6) = 140 \text{ dB} \quad | \quad A_{p,av} = 10 \log(4.80 \times 10^{10}) = 107 \text{ dB}$$

$$A_{v,av} = 20 \log(4 \times 10^4) = 92.0 \text{ dB} \quad | \quad A_{i,av} = 20 \log(2.75 \times 10^3) = 169 \text{ dB} \quad | \quad A_{p,av} = 10 \log(1.10 \times 10^{11}) = 130 \text{ dB}$$

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$$G_{11} = g_{11} = \frac{1}{20k\Omega + 76(50k\Omega)} = 0.262 \text{ } \mu\text{S} \quad | \quad A = g_{21} = 0.262 \mu\text{S}(76)(50k\Omega) = 0.995$$

$$R_{out} = g_{22} = \left[\frac{1}{50k\Omega} + \frac{1}{20k\Omega} + \frac{75}{20k\Omega} \right]^{-1} = 262 \text{ } \Omega \quad | \quad g_{12} = -\frac{g_{21}}{(20k\Omega)} = -\frac{262 \text{ } \Omega}{(20k\Omega)} = -0.0131$$

$$R_{in} = \frac{1}{g_{11}} = 3.82 \text{ M}\Omega \quad | \quad A = g_{21} = 0.995 \quad | \quad R_{out} = \frac{1}{g_{22}} = 262 \text{ } \Omega$$

Microelectronic Circuit Design 4th Solution Manual

JR Anderson

Microelectronic Circuit Design 4th Solution Manual:

The Art and Science of Microelectronic Circuit Design Anatoly Belous, Vitali Saladukha, 2022-02-10 This book guides readers through the entire complex of interrelated theoretical and practical aspects of the end to end design and organization of production of silicon submicron integrated circuits. The discussion includes the theoretical foundations of the operation of field effect and bipolar transistors the methods and peculiarities of the structural and schematic design basic circuit design and system design engineering solutions for bipolar CMOS BiCMOS and TTL integrated circuits standard design libraries and typical design flows

Filter Design Solutions for RF systems Leonardo Pantoli, Vincenzo Stornelli, 2020-11-19

This Special Issue focuses on the state of the art results from the definition and design of filters for low and high frequency applications and systems. Different technologies and solutions are commonly adopted for filter definition from electrical to electromechanical and mechanical solutions from passive to active devices and from hybrid to integrated designs. Aspects related to both theoretical and experimental research in filter design CAD modeling and novel technologies and applications as well as filter fabrication characterization and testing are covered. The proposed research articles deal with different topics as follows: Modeling design and simulation of filters; Processes and fabrication technologies for filters; Automated characterization and test of filters; Voltage and current mode filters; Integrated and discrete filters; Passive and active filters; Variable filters characterization and tunability.

Fundamentals of Electronics Erkan Yuce, Shahram Minaei, 2025-11-17

This book enables readers to become familiar with the concept of basic electronic circuits. First basic electrical circuit elements including resistors, capacitors and inductors are introduced. Additionally, examples of independent and dependent current and voltage sources are provided. Various examples illustrate solid state electronics. Ideal and practical diode circuits are discussed with multiple examples. DC and AC analyses of amplifiers based on bipolar junction transistors (BJTs) and metal oxide semiconductor field effect transistors (MOSFETs) are also covered. This book provides readers with a solid foundation in basic electronics concepts and offers over 140 detailed examples to reinforce understanding. The clear, straightforward language makes complex topics easier to grasp and the inclusion of numerous problem-solving exercises helps students and researchers develop practical skills they can apply in real scenarios. Introduces readers to key fundamentals of circuit analysis and amplifier design. Uses over 140 examples to explain concepts being introduced. Uses simple language to make the content accessible by readers with varying backgrounds.

Millimeter-Wave Power Amplifiers Jaco du Preez, Saurabh Sinha, 2017-10-05 This book provides a detailed review of millimeter wave power amplifiers discussing design issues and performance limitations commonly encountered in light of the latest research. Power amplifiers which are able to provide high levels of output power and linearity while being easily integrated with surrounding circuitry are a crucial component in wireless microwave systems. The book is divided into three parts, the first of which introduces readers to mm wave wireless systems and power amplifiers. In turn, the second focuses on design principles and

EDA concepts while the third discusses future trends in power amplifier research. The book provides essential information on mm wave power amplifier theory as well as the implementation options and technologies involved in their effective design equipping researchers, circuit designers and practicing engineers to design, model, analyze, test and implement high performance spectrally clean and energy efficient mm wave systems.

Computer-aided Design of Microelectronic Circuits and Systems: General introduction and analog-circuit aspects A. F. Schwarz, 1987 *IEEE Circuits & Devices*, 1997 *Microelectronic Circuit Design* Richard C. Jaeger, Arthur T. Bradley, 1997

Scientific and Technical Aerospace Reports, 1966 *Books in Print*, 1994 Computer Aided Design of Electronic Circuits for Optimun Yield of Drift Reliability Finn Jensen, 1969 **Hybrid CMOS Single-electron-transistor Device and Circuit Design** Santanu Mahapatra, Adrian M. Ionescu, 2006 CD ROM contains SET analytical model MIB coded in C MATLAB and Verilog A language allowing user to cosimulate and codesign hybrid CMOS SET circuits. Numerous circuit examples are also provided.

Scientific and Technical Books in Print, 1972 **Heat Transfer in Electronic Equipment, 1991** A. Ortega, D. Agonafer, B. W. Webb, 1991 **Subject Guide to Books in Print**, 1984 **VLSI Circuits and Systems**, 2005

Solutions Manual for Microelectronic Circuits Adel S. Sedra, Kenneth Carless Smith, 1982 Scientific and Technical Books and Serials in Print, 1989 **American Book Publishing Record**, 2000 **Proceedings of the Microelectronics Symposium**, 1965 *Applications of Microelectronics to Aerospace Equipment* Robert Charles Davy, 1968

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