
(2002 1)

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E-mail : hoonlee@ccs.sogang.ac.kr

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1. :

, , DSP, , ASIC ,
, (Integrated Circuits and Systems) 가
(diode), (bipolar junction
transistor), MOSFET ,
, 가

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- 1 Introduction to Electronics
- 2 Operational Amplifiers (op amps)
- 3 Operational Amplifiers (op amps)
- 4 Diodes

5	Diodes
6	Bipolar Junction Transistors
7	Bipolar Junction Transistors
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9	Bipolar Junction Transistors
10	Field Effect Transistors
11	Field Effect Transistors
12	Field Effect Transistors
13	Bias Circuits and Amplifiers
14	Bias Circuits and Amplifiers
15	Bias Circuits and Amplifiers
16	

(1) Introduction to Electronics ;

(2) Operational Amplifiers (op amps :) ;

Ideal op amp ideal op amp ,
 Nonideal op amp nonideal op amp

(3) Diodes ;

Ideal diode ,
 Small-signal , (rectifier) ,
 Nonideal diode

(4) Bipolar Junction Transistors (BJTs) ;

pnp, npn , Biasing , DC ,
 small-signal , BJT , BJTs, 2

(5) Field-Effect Transistors (FETs) ;

JFET, MOSFET , DC small-signal , FET
 , MOS , MESFET

(6) Bias Circuits and Amplifiers ;

BJT, JFET, MOSFET , small-signal ,
 BiCMOS, GaAs ,

4. :

- 가. : Sedra and Smith, " Microelectronic Circuits, " 4th ed., Oxford University Press, Inc., 1998.
- . : P. Gray and R. Meyer, "Analysis and Design of Analog Integrated Circuits, " 3rd ed., John Wiley & Sons, Inc., 1993.
- . : N.R. Malik, "Electronic Circuits; Analysis, Simulation, and and Design," Prentice Hall, 1995.
- . S.G. Burns and P.R. Bond, "Principles of Electronic Circuits," 2nd ed., PWS Publishing Co., 1997,

5. 가 :

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- : chapter , 1 (5)
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- , chapter가 , 1 가 ,

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- / 가 , , Textbook , Exercises, Examples, Problems .