

# Basic Types of Feedback Amplifiers

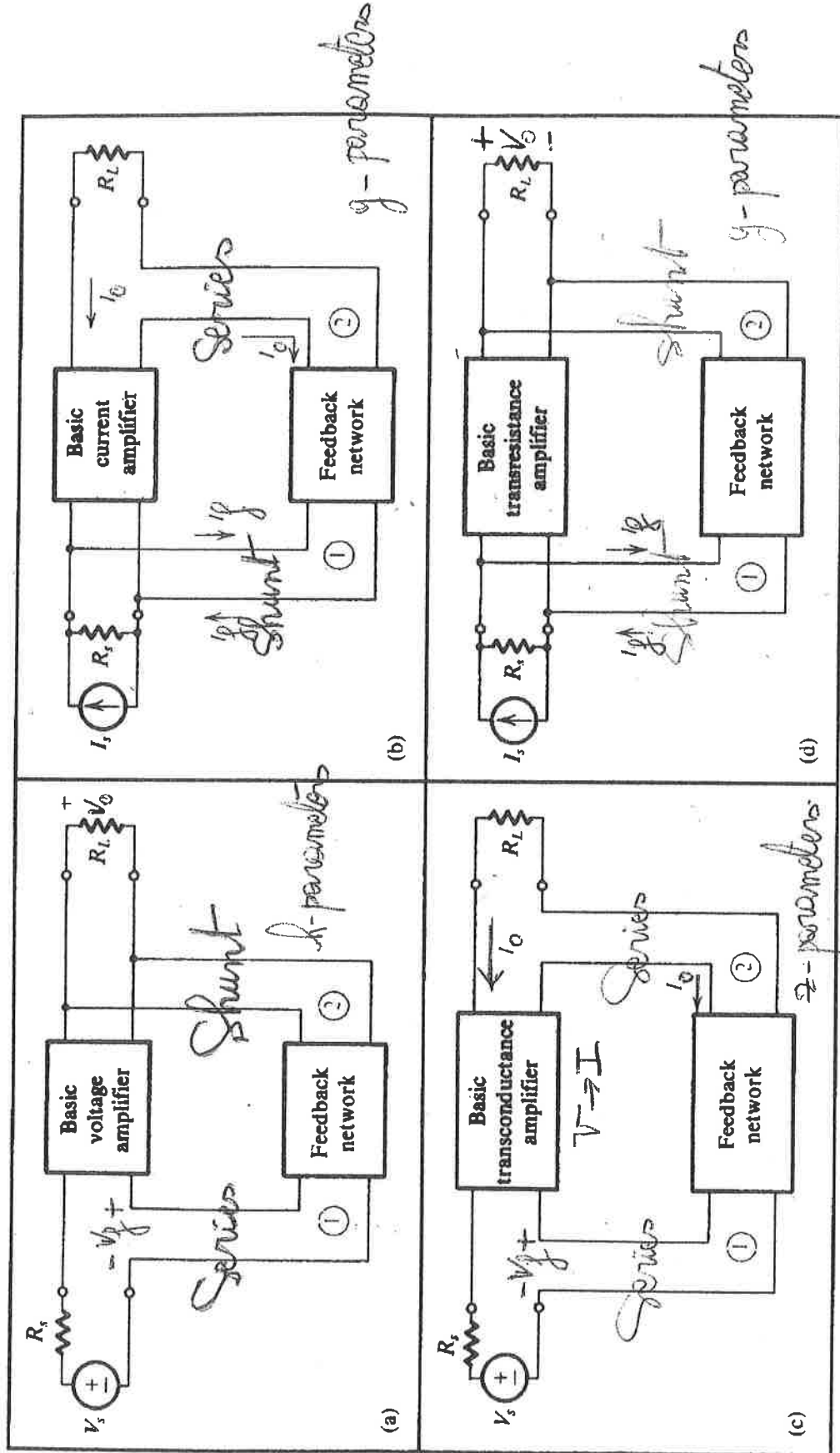
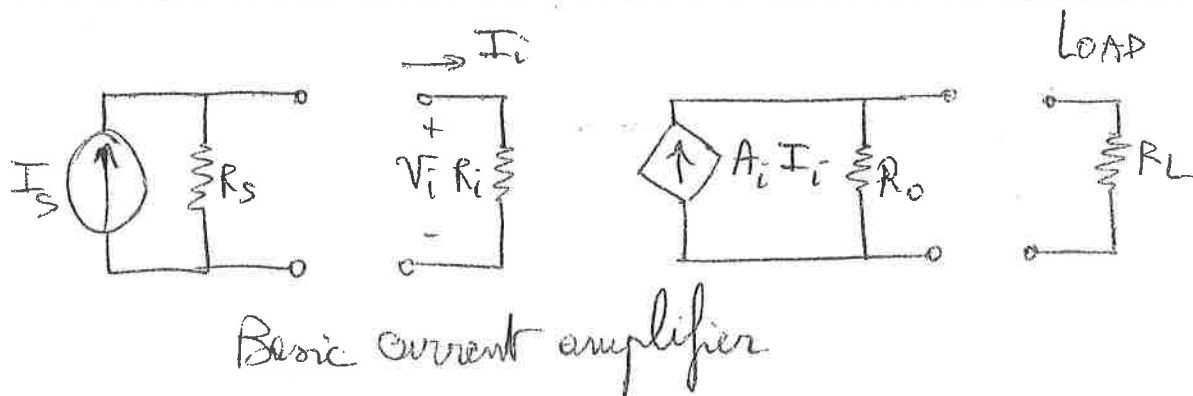
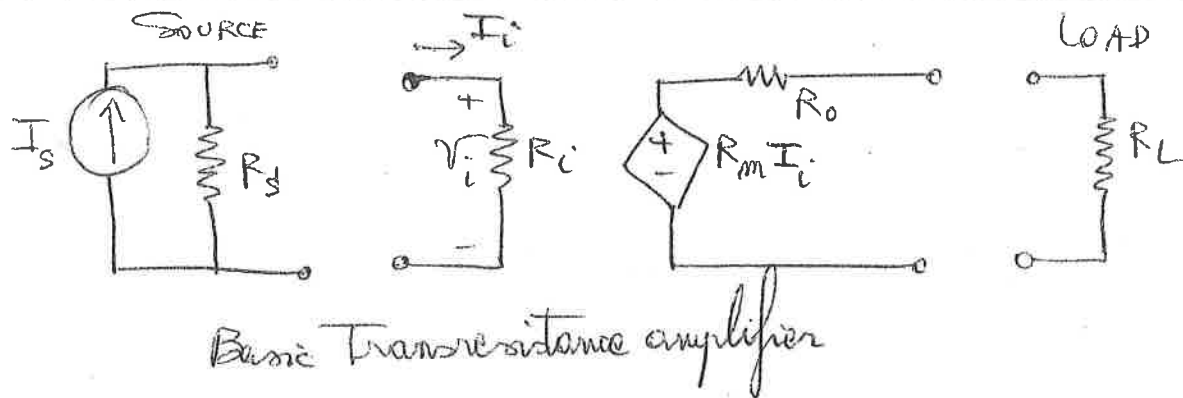
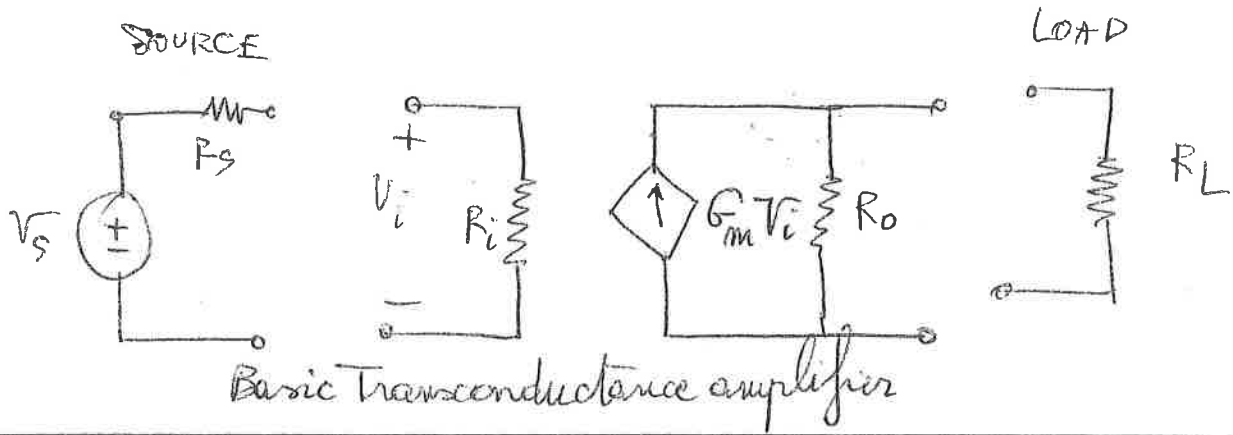
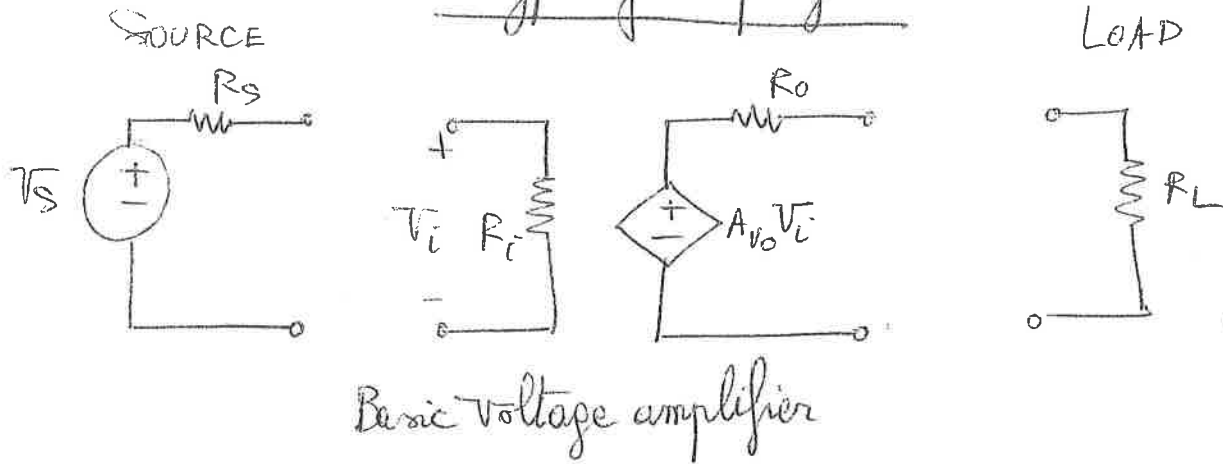
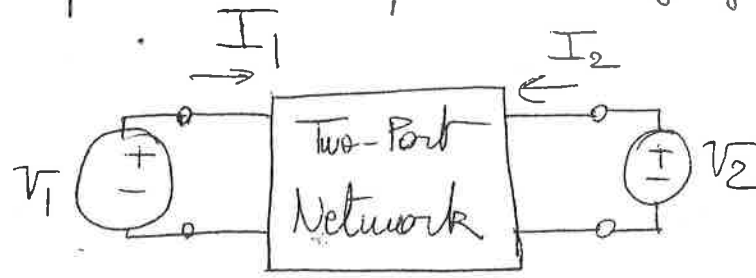


Fig. 8.4 The four basic feedback topologies: (a) voltage-sampling series-mixing (series-shunt) topology; (b) current-sampling series-mixing (shunt-series) topology; (c) current-sampling series-mixing (series-series) topology; (d) voltage-sampling shunt-mixing (shunt-shunt) topology.

# 4 Types of amplifiers



# Equivalent Two-port Network for feedback circuits:



## APPENDIX B TWO-PORT NETWORK PARAMETERS

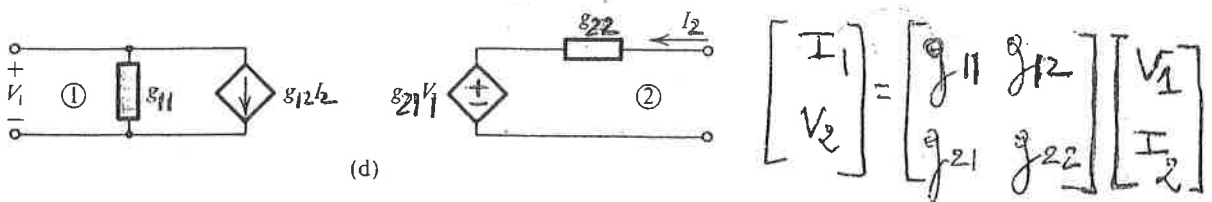
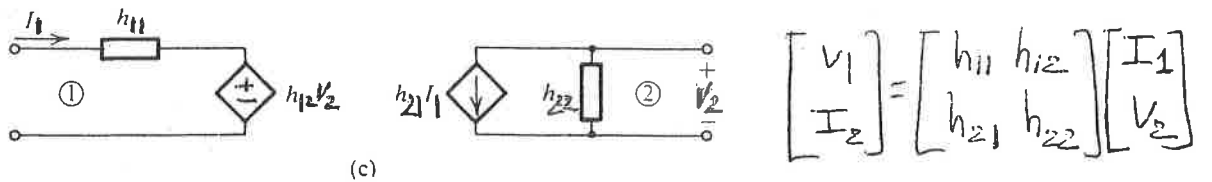
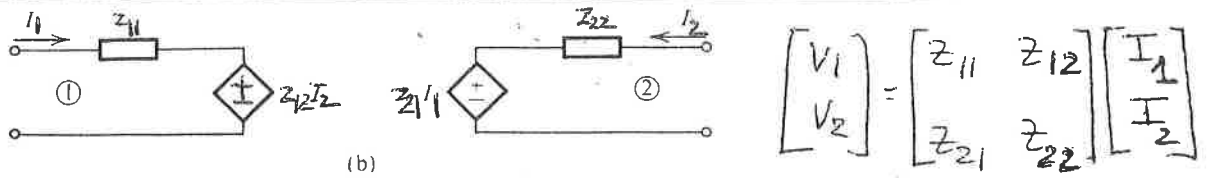
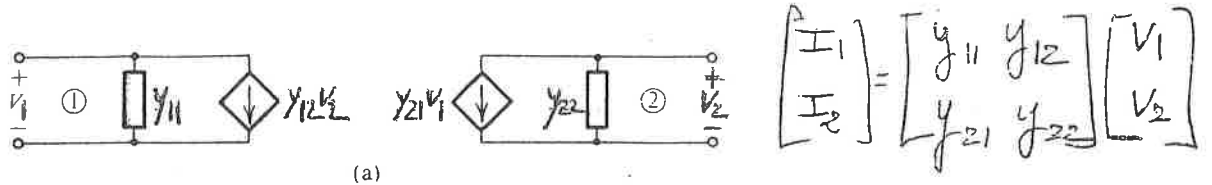


FIGURE B.6 Equivalent circuits for two-port networks in terms of (a)  $y$ , (b)  $z$ , (c)  $h$ , and (d)  $g$  parameters.