

REVIEW FOR EXAMINATION NO.2

Examination No. 2 will be given during class on Monday, March 14, 2005 from 9:05am to 9:55am. It will last for 55 minutes and is closed book. One page of 8.5x11 notes is permitted, front and back. The exam will include any relationships you will need and if relationships you need are not available, you may ask your instructor during the exam. The exam will consist of approximately 3 problems. Below is a list of the material for which you are responsible. The homework problems assigned for the material below represent the level of questions that will be asked.

Operational Amplifiers

Basic concepts of an op amp, specifications

Compensation of a two-stage op amp using Miller or nulling Miller compensation

Analysis and design of a two-stage op amp

Analysis and design of a folded-cascode op amp and the concept of self compensation

Cascode op amps

Static op amp limitations, CMRR, PSRR, offset, etc.

741 op amp - analysis, design, application

Frequency response of op amps

Slew rate of op amps

Measurement and simulation of op amps