

Title

Myeong-gi Jo, Jeongmin Lee, Subin Kim and Eugene Park

October 26, 2023

1 Introduction

Background : What is negative resistance? How was and is it used? - Chua circuit - How it is linked to module 2 and 3 (Op-amp, mosfets are the main of module 2 and 3)

Different methods on creating negatived differential resistance in circuits and research using their applications. - op-amp -> Chua circuit -

2 Research Design and Methodology

Research design - enable inverted op amp add mosfets the above for increased nonlinearity
anlayze IV curve characteristics and Impedance if possible

3 Preliminary Implications

How this device is expected to be different in application: - Difference from the negative differential resistance shown in the above - Novel design - How the added nonlinearities can present diverse phenomena.

4 Conclusion