Print your name and NetID legibly. Follow the guidelines and format given in the syllabus. Staple multiple pages. Show all units. Homework must be turned in at the beginning of class and any late homework assignments will not be accepted. Please contact the course director, Professor Dallesasse, should any issues with late homework arise.

I. PHONONS

Problem 4.1.

II. EFFECTIVE MASS

Problem 4.2.

III. EFFECTIVE DENSITY OF STATES

Problem 4.3.

IV. BANDGAP VARIATIONS

Problem 4.5.

V. QUASI-FERMI LEVELS

Problem 4.6.