

Feedback for EEE6040 Session:2006-2007

Feedback: Please write simple statements about how well students addressed the exam paper in general and each individual question in particular including common problems/mistakes and areas of concern in the boxes provided below. Increase row height if necessary.

Students in general could not cope with material which deviated from the notes.

Question 1:

1(b) Most failed to take account of the fact that saturation velocity rather than mobility was applicable.

Question 2:

2(a) Many did not realize that E could be taken as constant (undoped material above the channel) and hence calculations could be greatly simplified.

Question 3:

3(a) Some confusion between MOSFET, HEMT and MESFET.

Question 4:

4(a) Equivalent circuit parameters were generally identified but few managed to say how these were improved in the HBT structure.

4(b) Difficulty in handling exponential functions correctly to the practical situation.