MASSACHVSETTS INSTITVTE OF TECHNOLOGY
Department of Electrical Engineering and Computer Science

6.002 – Electronic Circuits
2 October 2001

Quiz #1 Announcement

Quiz 1 will be held in the evening of Wednesday, 10 October 2001, in Walker Memorial Gymnasium (Room 50-340) from 7:30 to 9:30 PM. The exam will cover material from the beginning of the term through material from the recitation on Friday, 28 September 2001.

The correspondence attached to this announcement was found yesterday in a trash can in building 10. While the 6.002 staff denies any knowledge of the circumstances described therein, it may have some bearing on the upcoming quiz. We suggest that you bring it with you to the quiz as there will not be extra copies available in Walker.

You may bring this handout and no more than one page of additional notes with you to the quiz.

Committee for the Scientific Investigation of the Claims Of Audiophiles

September 28, 2001

Professor Ann A. Logue
Laboratory for Sound Science
Right Brother's Wind Tunnel
Massachusetts Institute of Technology
Cambridge, MA 02139 USA

Dear Professor Logue:

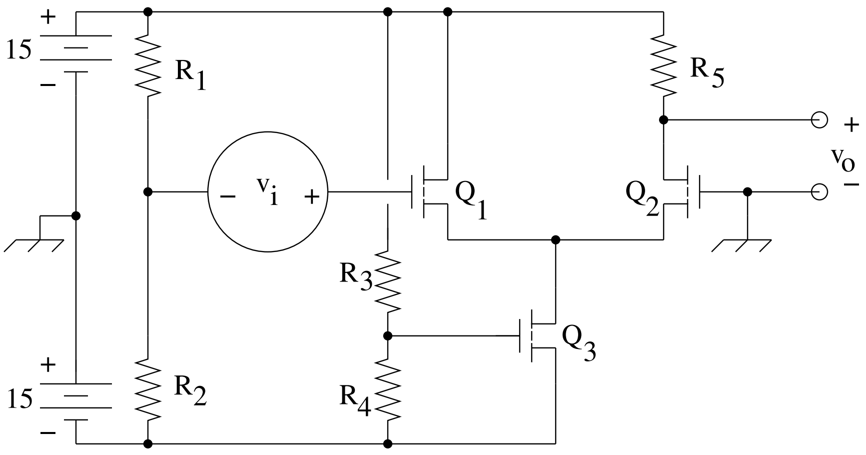
As you may know, audiophilia is a contagious disease in which otherwise intelligent people are persuaded that the application of huge amounts of money for wire or otherwise worthless merchandise can yield improved sonic performance of high-fidelity equipment. For example, some audiophiles claim that painting the edges of a CD with a green marker makes them sound better, contrary to our clear understanding of the workings of digital systems. On the other hand, some of the claims could be true. It is the calling of CSICOA to separate the truth from the nonsense.

We are currently investigating claims, by a local company, that a particular amplifier made of commonly available parts, has some unique sonic advantages. We have examined the device and we are trying to reverse engineer it. We have discovered a portion of the circuit that our engineer, Lem E. Tweakit, is having a bit of trouble deciphering. Can you help us? I enclose a diagram of the troublesome part of the circuit.

Thank you,

L. P. Record, President,
Boston Chapter CSICOA

High Fidelity Investments, Inc. Boston, MA



All transistors have V_T = 1 volt and K = 2 mA/volt^2.
R1 = 100k R2 = 100k R3 = 47k R4 = ??? R5 = 10k

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September 31, 2001

Dear Mr. Record:

We are pleased to help you with your problem. As part of our educational mission we have assembled a team of about 280 crack engineers to comment on your circuit. They will assemble in 50-340 in the evening of Wednesday, 10 October, 2001, to produce the report for Mr. Tweakit.

Sincerely,

Ann A. Logue, Professor of Electrical Engineering