

Wednesday, December 11, 2011 We proposed this arrangement of conductive-glass electrodes to compare the effect of direct heating with radiative heating. The four conductive-glass pieces (red square) are kept at the same temperature by the hot conductive-glass vapor above them. At the same time, the top piece of conductive-glass plate is held at a constant temperature by the cold conductive-glass vapor below it. The blue square represents a temperature sensor and computer terminal. Setup #2: The setup for this experiment is a bit more complicated than the previous one. The hot conductive-glass vapor heats the set of four conductive-glass pieces. The cold conductive-glass vapor keeps the top piece at a constant temperature. The blue square on the computer terminal is a sensor for temperature measurement. The battery pack on the computer terminal powers the sensor and controls the current flowing through the electrodes. I made two slightly different configurations: in one, the conductive glass is all in a straight line and in another it is kind of "zigzagging" between the lines. The zig-zagging configuration was faster to build because of the alternation of bottom and top conductive-glass pieces, but it took me an hour to calculate the data in the two configurations. And as with the previous example, it became clear that I really should have programmed my laptop as a test bench. Either way, both experiments produced the same final results. Theory and Experiment: The conductive-glass in each experiment is made of KFz/KF2z or KF2/KFz/KF2z, where K is a mix of aluminium and potassium and F is lead. KFz is very pure, but it will melt at about 1000C. I really didn't know that until I started doing this. Potassium fluoride is very reactive with water, so I had to carefully pre-dry the conductive glass. In both experiments, I quickly heated the bottom conductive-glass pieces to 3000C and held them there. Then I removed them, boiled water for about 30 minutes and removed the boiling water from the bottom of each piece. I did this for the two configurations. To have two levels of heating in each configuration, I positioned the top conductive-glass plate on half of the sample set. The conductive-glass pieces were connected to a power supply and the battery pack

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