

2.57 HOMEWORK 8

Due: 2:30 pm, Wednesday
November 10, 2004

Problem 1. Read one of the following two papers and write a one page report.

Schwab, K., Henriksen, E.A., Worlock, J.M., and Roukes, M.L., "Measurement of the Quantum of Thermal Conductance," *Nature*, Vol. 404, pp.974-977 (2000).

Hargreaves, C.M., "Anomalous Radiative Transfer between Closely-Spaced Bodies," *Physics Letters*, Vol. 30A, pp. 491-492 (1969).

Problems from the course textbook : 5.11, 5.13, 5.16, 5.18, 5.23

Announcement

1. November 1. Midterm No. 1.

Closed book, one page note limited to letter side paper, you can use both sides.

Exam covers chapters 1-5. Include some short answer questions and two long problems.

2. Nov. 3, guest lecture, Professor Mildred S. Dresselhaus, on carbon nanotubes.