

Physics 106b
Problem set number 5
Due Wednesday, February 17, 1999

Notes about course:

- Note that there is a “Ph106” box in room 335, which can be used for submitting homework sets.
- TAs:

Yi Li	lym@its.caltech.edu	Tue 4-5	176 Watson
Chiyun Luo	chiyan@cco.caltech.edu		
Federico Spedalieri	federico@cco.caltech.edu	Mon 4-6	201 Synchrotron
- Web page URL:
<http://www.cithec.caltech.edu/~fcp/ph106/>

Reading: Jackson Introduction and Survey, and chapter 1 (sections 1.12 and 1.13 are optional).

23. Jackson problem 1.1.
24. Jackson problem 1.3.
25. Jackson problem 1.5.
26. Jackson problem 1.9.
27. Exercise in superposition: Ohm’s law states that the potential difference generated by a current I (in Amperes) through a resistor of resistance R (in Ohms) is $V = IR$ volts. Consider a square array of resistors as shown below. Each resistor is 1 Ohm. What is the resistance between point A and point B ?