

PHYS-UA 120 Dynamics Problem Set 0

Due at the beginning of Lecture on 2014 September 09.

Problem 1:

Kibble & Berkshire, Ch 1, problems 1 and 2

Problem 2:

Kibble & Berkshire, Ch 1, problem 3

Problem 3:

Kibble & Berkshire, Ch 1, problem 10

Problem 4:

In Chapter 1, page 5, Kibble & Berkshire refer to the axis directions \mathbf{i} , \mathbf{j} , \mathbf{k} as “unit vectors”. In Appendix A, Problem 15, they refer to a rotation matrix \mathbf{R} as a “tensor”. Give some reasons Prof Hogg might object to both of these characterizations.