

multiple oscillations & wave pulses,
Part 2

PHYSICS 204,
JOHN JAY COLLEGE OF CRIMINAL JUSTICE,
THE CITY UNIVERSITY OF NEW YORK

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PART II. 'E PLURIBUS UNUM'

***TEXT PROBLEMS REGARDING:
TRANSVERSE WAVE PULSES
ALONG A LONG STRETCHED STRING .***

a) *HRW*, Chapter 16:

Problems 29, 43.

b) **Deriving the *wave equation*.**

Note the derivation provided at the beginning of section 16.4.

Assume that you will be tested very directly and explicitly on the form, content and implications of this particular derivation.

Practice it repeatedly on a blank sheet of paper. Be able to reproduce this derivation (or an approved equivalent) without looking at it.

c) **Relating *propagation to oscillation*.**

In three complete English sentences, explain the similarities and differences between the meanings of "equation 15-3" and "equation 16-45". Why do we need both?