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Physics 203-NYC-05

Waves, Optics &

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Examination. This

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exam is divided into two parts: Part I: Problems (10 marks each) Solve all six problems. Show all of your work, clearly and in order, to receive full marks. If you use a formula not given on the formula sheet, a derivation must be shown.

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Access study documents, get answers to your study questions, and connect with real tutors for PHYS 203-NYC-05 : Waves, Optics, and Modern Physics at Cégep John Abbott College.

**PHYS 203-NYC-05 :
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PHYSICS Science
Waves, Optics &
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203-NYC-05 (all
sections) Winter 2017
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**PHYSICS Science
Waves, Optics &
Modern Physics**

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Physics 203 Nyc
05. Waves, Optics

Physics 203-NYC-05
WAVES AND MODERN
PHYSICS Laboratory
outline 1. Introduction

In the laboratory component of the Waves and Modern Physics course, you will investigate experimentally and on the computer some of the phenomena associated with harmonic motion, waves, light and modern physics.

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WAVES AND

MODERN PHYSICS

Laboratory outline

203-NYC-05: Waves,
Optics & Modern
Physics Interference
and Diffraction

OBJECTIVE: Investigate
the parameters that
affect interference and
diffraction patterns.

ONE SLIT DIFFRACTION

Objective: Observe the
effect of slit width on
diffraction pattern and
measure width "a" of a

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single slit. Use a mechanical slit which thickness can be changed.

203-NYC-05: Waves, Optics & Modern Physics (section 1079)

203-NYC-05, Waves, Optics and Modern Physics Topics include: simple harmonic motion, damping; resonance, definition and properties of waves, application to

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05 Waves Optics

sound and matter waves, and application to electromagnetic waves. Geometrical optics (laws of lenses, mirrors, and optical instruments) and physical optics (interference and diffraction).

Course Description

Champlain College
Physics 203-NYC 3. The figure below is a waveform at $t = 1 = 4s$ of the wave function

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$D(x;t) = (2.0\text{cm})\sin(2\pi x + 4\pi t)$ where x is in meter and t is in second. (a) On the graph below, draw the waveform at $t = 0\text{s}$ using a dotted line. (b) On the same graph, draw the waveform at $t = 1.8\text{s}$ using a dashed line. (c) What is the speed of this wave?

Champlain College
Physics 203-NYC
Traveling Waves

Waves, Optics and

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(203-NYC-05) Useful Documents for Waves, Optics and Modern Physics: Course Notes, Solutions and Old Exams : Labs. Useful Documents for Labs: Mechanics Lab Book, Excel Macro for Graphs and Excel Document for Comparing Values : Documents. Many Useful Documents : Schedule. Teacher's Schedule for the Current...

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Physics at Mérici

Waves Optics and
Modern Physics |

203-NYC-05

Prerequisite: 203-NYA
& 201-NYA | C:

203-NYB (PASSED OR
IN PROGRESS) Wave
behaviour is

fundamental to an
astonishing list of
physical phenomena.

**Science (200.B0) -
John Abbott College**

Access study
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answers to your study
questions, and connect
with real tutors for
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Optics & Modern
Physics at Cégep
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Cégep ...**

The Physics Classroom
Tutorial presents
physics concepts and
principles in an easy-to-

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understand language. Conceptual ideas develop logically and sequentially, ultimately leading into the mathematics of the topics. Each lesson includes informative graphics, occasional animations and videos, and Check Your Understanding sections that allow the user to practice what is taught.

**Physics Tutorial:
Vibrations and**

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Waves

Physics Labs at City
College Fall 2020.

Notice: Due to the
ongoing situation, in-
person lab classes
have been replaced by
online lab sessions.

Please follow the
instructions below. ...

PHYS 20400: Wave
Optics. PHYS 20800:
RC Circuits. Lab 7 PHYS
20300: Buoyancy.

**CCNY Physics Labs -
City University of**

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New York

Traveling waves Waves propagate from one place to another: From source to detector

Sound from an instrument to ear Cell phone to cell tower and vice versa - E/M waves

Water waves - a disturbance in the water moves outward.
 $y(x,t) = y_m \sin(kx - \omega t)$

A traveling wave can be represented as any function of $kx - \omega t$ such that $kx - \omega t$ is a

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constant.

Modern Physics
**Lecture 11 Chapter
16 Waves I -**

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physics courses of the
Quebec curriculum:
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3, math 314, math 426,

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math 436, math 514,
math 526, math 536,
physics 534, cegep
201-NYA-05 Calculus,
201-NYB-05 Calculus II,
201-NYC-05 Linear
Algebra, 203-NYA-05
Mechanics, 203-NYB
-05 Electricity &
Magnetism,
203-NYC-05 Waves,
Optics & Modern
Physics, Concordia
university math
200-209, physics
204-206 ...

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**Analytic list of
mathematics and
physics courses that
I tutor**

Course Objectives:
College Physics I is the first of the algebra-based course sequence designed for pre-professional and general education students. The principle objectives are:
Understand the fundamental concepts of mechanics, waves, sound, and

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thermodynamics. Use algebra to explain measurements and make predictions.

PHYSICS 203: College Physics I

Part of the sport of surfing is the search for big, interesting waves that are fun to ride. These waves can be huge, like Mavericks off the coast of San Francisco, which can reach up to 50 feet (15 meters). Another

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famous surfing wave, the Banzai Pipeline, breaks over a reef off the coast of Oahu, Hawaii. It's one of many plunging waves that creates a pipe-like space, or barrel, that surfers ...

**The Physics of
Waves - Waves |
HowStuffWorks**

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and Optics (4/23)

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5/23 Chap 3: Waves
and Optics (5/23)
2020-03-05 18:30:55
6/23 Chap 3: Waves
and Optics (6/23)

2020-03-05 18:30:55
1/23 Chap 3: Waves
and Optics (#7)

Physics 204 Labs at
CCNY. Experiment 1:
Sound. Experiment
with the basics of
sound waves. Go to the
Lab → PDF lab Manual
→ Report Questions →
Experiment 2: Standing

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Waves. Create standing waves on a string and measure their properties.

**Physics 204 Labs at
CCNY - City
University of New
York**

a transverse waves,
longitudinal waves and
circular waves. The
analyze the up and
down, back and forth,
and around and around
movement of the
individual particles.

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They record their observations and construct diagrams to convey information about each type of wave.

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