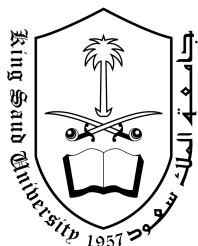


“Equipped with his five senses, man explores the universe around him and calls the adventure: Science.”

- Edwin Powell Hubble

395 VIBRATIONS AND WAVE PHENOMENA LAB FINAL EXAM



KING SAUD UNIVERSITY
COLLEGE OF SCIENCE
DEPARTMENT OF PHYSICS AND
ASTRONOMY
FIRST SEMESTER
2014 – 2015

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

STUDENT INFORMATION

Name:

ID:

Date:

395 VIBRATIONS AND WAVE PHENOMENA LAB FINAL EXAM

FRESNEL BIPRISM

PART 1: CALCULATE THE SEPARATION OF THE FRINGES.

X1 ()	X2 ()	ΔX ()

PART 2: CALCULATE THE REAL SEPARATION OF THE VIRTUAL SLITS.

s1 ()	s2 ()	u ()	v ()	d ()

PART 3: EXPLAIN WHAT THE QUANTATIES U AND V MEAN.

u	
v	

PART 4: GIVEN THAT THE REAL WAVELENGTH OF THE LIGHT USED IN THIS EXPERIMENT IS (5893 Å), CALCULATE THE FOLLOWING: (SHOW YOUR CALCULATIONS)

D (theoretically)	
D (experimentally)	
Error %	

395 VIBRATIONS AND WAVE PHENOMENA LAB FINAL EXAM

EXTRAS
