

## Physics First Study Guide

### Equations:

Wave speed, frequency and wavelength

$v$  = velocity or speed

$f$  = frequency (or pitch if sound)

$\lambda$  = wavelength

$$v = f \lambda$$

$$f = \frac{v}{\lambda}$$

$$\lambda = \frac{v}{f}$$

### Standing Waves

On a string:  $f = \frac{nv}{2L}$

where  $n=1$  is the fundamental,  $n=2$  second harmonic,  $n=3$  third harmonic..

$L$  = length of string

$v$  = speed of wave on that string

In tube open at both ends:  $f = \frac{nv}{2L}$

where  $n=1$  is the fundamental,  $n=2$  second harmonic,  $n=3$  third harmonic..

$L$  = length of pipe

$v$  = speed of sound = 345 m/s

In tube open at only one end:  $f = \frac{nv}{4L}$

where  $n=1$  is the fundamental,  **$n=3$**  second harmonic,  **$n=5$**  third harmonic..

$L$  = length of pipe

$v$  = speed of sound = 345 m/s

### Misc.:

The speed of sound is  $v = 345$  m/s

The speed of light is  $v = 3 \times 10^8$  m/s = 300,000,000 m/s

kHz = 1,000 Hz

MHz = 1,000,000 Hz

### Chapters in Book:

Chapter 25 Vibrations and Waves

Chapter 26 Sound

Chapter 27 Light

# Physics Study Guide Answers

**Jin-Ying Zhang**



## **Physics Study Guide Answers:**

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**The Primary FRCA Structured Oral Examination Study Guide 1** Lara Wijayasiri, Kate McCombe, Amish Patel, 2010 This fully up to date book is designed specifically for candidates preparing for the Primary FRCA structured oral examination incorporating the new exam structure and syllabus Sample questions accurately reflect the examination while model answers are systematically structured with definitions and classifications and illustrated with essential diagrams and graphs The books provide clear and concise explanations to key scientific concepts and problem based answers to clinical scenarios This first part contains questions on physiology and physics Packed with new guidelines fundamental topics that are poorly covered in other main texts and current hot topics this book and its companion The Primary FRCA Structured Oral Examination Study Guide 2 are the definitive revision aid to the Primary FRCA but will also be of value to candidates preparing for the basic science component of the Final FRCA as reference source for qualified anaesthetists and as a text for tutors preparing candidates for the structured oral examination

SOE Student Study Guide and Selected Solutions Manual, Volume 2 Bo Lou, 2006-05

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**Research in Education**, 1974

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