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## PERIODIC MOTION

13.1. **IDENTIFY and SET UP:** The target variables are the period  $T$  and angular frequency  $\omega$ . We are given the frequency  $f$ , so we can find these using Eqs.(13.1) and (13.2)

**EXECUTE:** (a)  $f = 220 \text{ Hz}$

$$T = 1/f = 1/220 \text{ Hz} = 4.54 \times 10^{-3} \text{ s}$$

$$\omega = 2\pi f = 2\pi(220 \text{ Hz}) = 1380 \text{ rad/s}$$

(b)  $f = 2(220 \text{ Hz}) = 440 \text{ Hz}$

$$T = 1/f = 1/440 \text{ Hz} = 2.27 \times 10^{-3} \text{ s} \text{ (smaller by a factor of 2)}$$

$$\omega = 2\pi f = 2\pi(440 \text{ Hz}) = 2760 \text{ rad/s} \text{ (factor of 2 larger)}$$

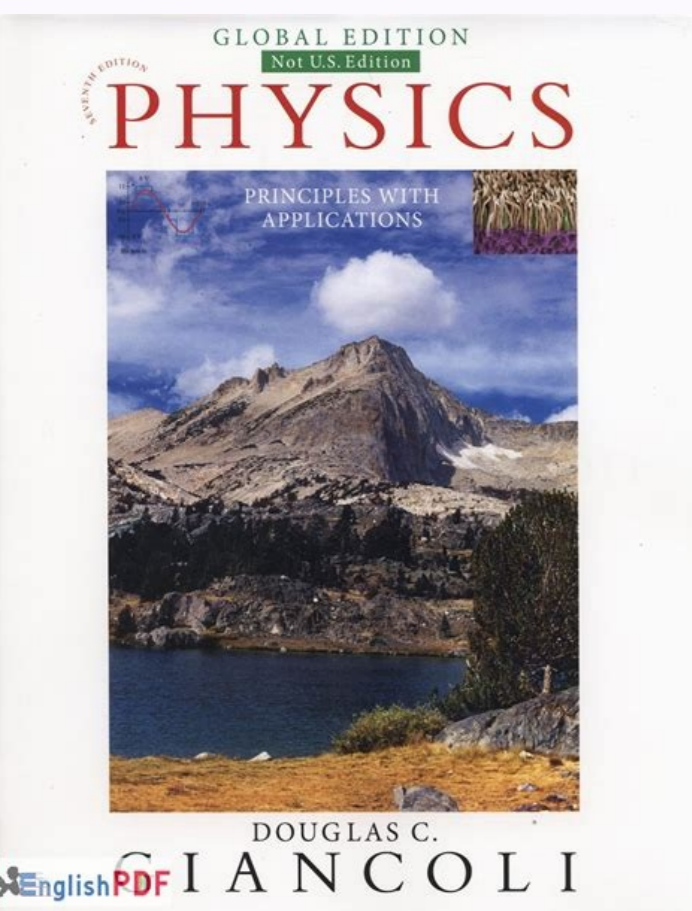
**EVALUATE:** The angular frequency is directly proportional to the frequency and the period is inversely proportional to the frequency.

13.2. **IDENTIFY and SET UP:** The amplitude is the maximum displacement from equilibrium. In one period the object goes from  $x = +A$  to  $x = -A$  and returns.

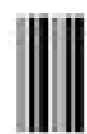
**EXECUTE:** (a)  $A = 0.120 \text{ m}$

(b)  $0.800 \text{ s} = 7/2$  so the period is  $1.60 \text{ s}$

(c)  $f = \frac{1}{T} = 0.625 \text{ Hz}$

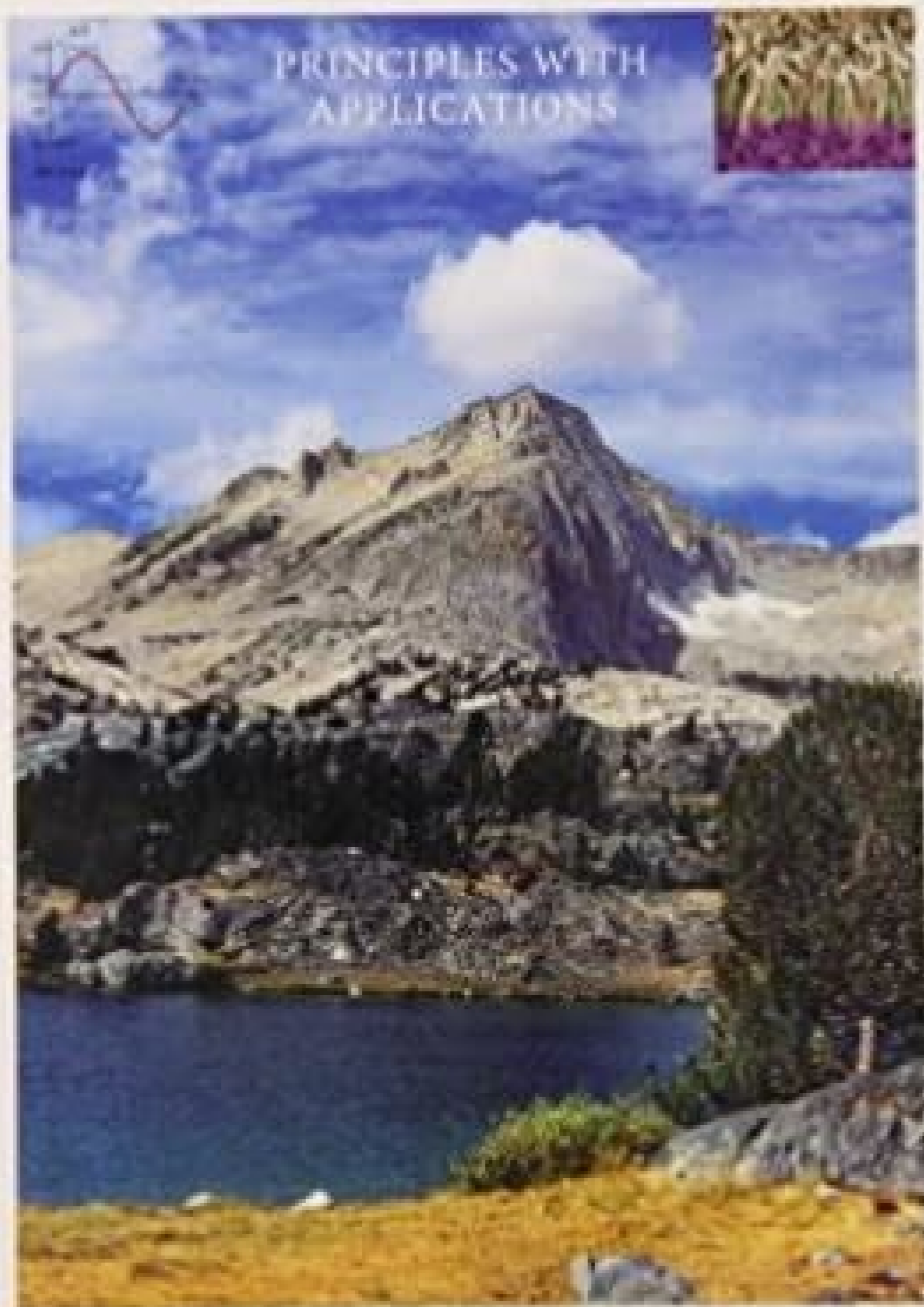


# GIANCOLI PHYSICS 7TH EDITION SOLUTIONS MANUAL PDF



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## VOLUME II PHYSICS



DOUGLAS C.  
GIANCOLI

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