

# Download File PDF Water Wave Mechanics For Engineers And Scientists Solution Manual

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Work Examples  
Part 4: Fluids, Digital Ocean, Study, IT, Maths, Biz

**WORKED OUT EXAMPLES**

**Problem 1**  
A 10 second period wave having a height of 5m propagates from deep to shallow waters. Assuming that the bottom contours are parallel to each other, compute the wave height at a water depth of 10m.

**Solution**  
 $L_w = 1.56 T^2 = 1.56 \times 100 = 156 \text{ m}$   
 $\frac{d}{L_w} = 0.0642$   
Corresponding  $\frac{H}{L_w} = 0.1082$  (from wave table)  
 $C_g = \frac{L_w}{T} = 15.6 \text{ m/sec}$   
 $L = 92.4 \text{ m}, C = \frac{92.4}{10} = 9.24 \text{ m/sec}$   
 $K_s = \frac{2\pi}{L} = 0.065, 2k d = 2 \times 0.065 \times 10 = 1.31$   
 $n = \frac{1}{2} \left[ 1 + \frac{2k d}{\sinh 2k d} \right] = 0.88$   
 $\frac{H}{L} \left( \frac{C}{C_g} \right)^2 = \frac{0.1082 \times \left( \frac{9.24}{15.6} \right)^2}{0.88} = 0.3628$   
Therefore wave height  $H$  at  $d = 10 \text{ m}$  is  $0.3628 \times 156 = 5.66 \text{ m}$

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