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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)
 $C_g = \frac{L_w}{T} = 15.6 \text{ m/sec}$
 $L = 92.4 \text{ m}, C = \frac{92.4}{10} = 9.24 \text{ m/sec}$
 $K_s = \frac{2\pi}{L} = 0.065, 2k d = 2 \times 0.065 \times 10 = 1.31$
 $\eta = \frac{H}{L} \left[1 - \frac{2k d}{\sinh 2k d} \right] = 0.88$
 $\frac{H}{L} = \frac{C_g}{C} \times \eta = \frac{15.6}{9.24} \times 0.88 = 1.49$
Therefore wave height H at $d = 10 \text{ m}$ is $0.8828 \times 156 = 4.91 \text{ m}$

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