11.15

EE23BTECH11029 - Kanishk

Question:

A SONAR system fixed in a submarine operates at a frequency $40.0~\mathrm{kHz}$. An enemy submarine moves towards the SONAR with a speed of 360 km/hr. What is the frequency of sound reflected by the submarine? Take the speed of sound in water to be $1450~\mathrm{m/s}$.

Solution: