

1- **What is the primary benefit of utilizing the Doppler effect in motion detection for radar systems?**

- A) It allows for increased bandwidth in radar signal transmission
- B) It enables the determination of the speed and direction of moving targets
- C) It reduces the complexity of radar signal processing
- D) It enhances the resolution of static targets

2- **How does Micro-Doppler analysis improve radar target classification?**

- A) By providing a higher transmission power to the radar system
- B) By distinguishing between different types of motion patterns and vibrations of targets
- C) By increasing the radar's effective range for long-distance detection
- D) By simplifying the radar system's hardware requirements