

ZAD. 41.3

DANE

$$v_0 = 4 \frac{\text{m}}{\text{s}}$$

$$v_2 = 0 \frac{\text{m}}{\text{s}}$$

$$v = 340 \frac{\text{m}}{\text{s}}$$

$$f' = 5868 \text{ Hz}$$

SZUKANE

$$f = ?$$

ROZWIĄZANIE

$$f' = f \cdot \frac{v + v_0}{v}$$

$$f = f' \cdot \frac{v}{v + v_0}$$

$$f = 5868 \cdot \frac{340}{340 + 4} \approx 5800 \text{ [Hz]}$$

Odp.: 5800 Hz