Problems

A pulse coded modulation (PCM) coded speech of size 1024 Kbits is compressed by the regular pulse excitation with long term predictor (RPE-LPT) speech coding scheme. What is size of the compressed speech?

Solution

$$\frac{1024}{64} = 16 \text{ s}$$

- For RPE-LPT speech coding scheme, every 20 ms PCM coded speech produces 456 bits.

$$\frac{16}{20 \times 10^{-3}} = 800$$

$$800 \times 456 = 365 \times 10^{3} \text{bits}$$