

例 6.7

$$(1) 1-\alpha=0.95 \quad \frac{\alpha}{2}=0.025 \quad z_{\frac{\alpha}{2}}=z_{0.025}=1.96$$

$$\bar{x} \pm z_{\frac{\alpha}{2}} \frac{s}{\sqrt{n}} = 16.33 \pm 1.96 \frac{4.29}{\sqrt{36}} = 16.33 \pm 1.40$$

即 (14.93, 17.73)

$$(2) 1-\alpha=0.90 \quad \frac{\alpha}{2}=0.05 \quad z_{\frac{\alpha}{2}}=z_{0.05}=1.645$$

$$\bar{x} \pm z_{\frac{\alpha}{2}} \frac{s}{\sqrt{n}} = 16.33 \pm 1.645 \frac{4.29}{\sqrt{36}} = 16.33 \pm 1.18$$

即 (15.15, 17.51)