

2008 年硕士学位研究生入学考试试题参考答案

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$$1. A_{03} = \frac{2}{0.5+2} \left(50 \frac{2}{2+1}\right) \left(50 \frac{2}{2+1}\right) \left(50 \frac{1}{1+1}\right) = 22.2 \times 10^3 \quad (6 \text{分})$$

$$2. \begin{cases} f_{hi} = f_L / S_n \\ A_i \cdot f_{hi} = 1000 \text{ kHz} \end{cases} \quad \left. \begin{matrix} \\ \\ \end{matrix} \right\} A_i = 20 \cdot S_n \quad (2 \text{分})$$

$$A = A_i^n = (20 S_n)^n \geq 1000 \quad (2 \text{分})$$

$$\downarrow \begin{matrix} n=3 \text{ 时, } S_n=0.51 & A=1061 > 1000 & \text{需 3 级} & (2 \text{分}) \end{matrix}$$

$$\uparrow \begin{matrix} n=2 \text{ 时 } S_n=0.64 & A=163.84 < 1000 \end{matrix}$$

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