

班级: 计吐 姓名: <a>吳遊詢 编号: 2020010 869科目: 信息 第 1 页

$$\int_{-\frac{\pi}{4\omega}}^{\frac{\pi}{4\omega}} e^{j\alpha\omega st} \cdot e^{-j\omega st} dt$$

$$= \int_{-\frac{\pi}{4\omega}}^{\frac{\pi}{4\omega}} e^{j(\alpha-b)\omega st} dt$$

$$= \int_{-\frac{\pi}{4\omega}}^{\frac{\pi}{4\omega}} cos[(\alpha-b)\omega st] + jsn((\alpha-b)\omega st) dt$$

$$= \frac{1}{(\alpha-b)(\omega)} \cdot \left[sn((\alpha-b)\omega st) - j(os((\alpha-b)\omega st))\right]_{-\frac{\pi}{4\omega}}^{\frac{\pi}{4\omega}}$$

$$= \frac{1}{(\alpha-b)(\omega)} \cdot \left[sn((\alpha-b)\pi) - sn((\alpha-b)\pi) - j(os((\alpha-b)\pi) + jcos((\alpha-b)\pi))\right]$$

$$= \frac{2sn(\alpha-b)\pi}{(\alpha-b)\pi}$$

$$\int_{-\frac{\pi}{L_0}}^{\frac{\pi}{L_0}} e^{j\omega t} \cdot e^{-j\omega t} dt$$

$$= \int_{-\frac{\pi}{L_0}}^{\frac{\pi}{L_0}} e^{-i\omega t} dt$$

$$= \frac{3\pi}{\omega_0}$$

由此可知, {ejwot | n=0,11,12... y在[-元,元], welk上是改函教集