$$\frac{\Pr_{U} \& \& 1 = -\prod_{i=1}^{M} \lim_{y \to 1} \frac{\Pr_{U} \& \lim_{y \to 1} \log (M + K)}{\Pr_{U} + K(M_{U+1} - 2M_{U} + M_{U-1})}$$

$$M = M_{0} e^{ihx} - iwt$$

$$-Mw^{1} = iw\Gamma + K(e^{ihx} - 2 + e^{-ihx})$$

$$w^{2} + i\frac{\prod_{W}}{M} = -\frac{K}{n} \left(\frac{2 - 2 \cosh k}{2}\right) = 0$$

$$\frac{\sqrt{2}}{2\gamma} \frac{\frac{4K}{N} \sin^{2} \frac{k_{0}}{2}}{\frac{4 \sin^{2} \frac{k_{0}}{2}}{\frac{2}}}$$

$$W_{12} = -i\gamma \pm \left[\frac{\frac{4K}{M} \sin^{2} \frac{k_{0}}{2}}{\frac{2}{N}} - \frac{2N}{N}\right]$$

$$= \int e^{iq_{0}} \log n_{0} \operatorname{reduce} - \frac{k_{0}}{2} - \frac{2N}{N}$$

$$\frac{\sqrt{2}}{r(lowedment - 1)} = -i\gamma + i\gamma$$

$$k = \frac{1}{k} = -i\gamma \pm \frac{1}{k} = \frac{2N}{k}$$

$$d_{n-per} e^{iq}$$

oscillations

$$\begin{array}{l} \hline \begin{array}{l} \hline P_{roddm} & g \mid \\ \hline a, a^{\dagger} & f & = a a^{\dagger} - a^{\dagger} a = \left( \left[ \frac{P_{10}}{2h} \times + \frac{\lambda P}{\sqrt{2} \Gamma_{10} t_{1}} \right) \left( \left[ \frac{P_{10}}{2h} \times - \frac{\lambda P}{\sqrt{2} \Gamma_{10} t_{1}} \right) \right) \left( \frac{P_{10}}{2h} \times - \frac{\lambda P}{\sqrt{2} \Gamma_{10} t_{1}} \right) \right) \\ & = \left( \left[ \frac{P_{10}}{2h} \times - \frac{\lambda P}{\sqrt{2} \Gamma_{10} t_{1}} \right) \left( \frac{P_{10}}{2h} \times - \frac{\lambda P}{\sqrt{2} \Gamma_{10} t_{1}} \right) \right) \left( \frac{P_{10}}{2h} \times - \frac{\lambda P}{\sqrt{2} \Gamma_{10} t_{1}} \right) \right) \\ & = \frac{1}{2t} \left[ \lambda P \times -\lambda P - \lambda P + \lambda P \times \frac{\lambda P}{\sqrt{2} \Gamma_{10} t_{1}} \right] \left( \frac{P_{10}}{2h} \times - \frac{\lambda P}{\sqrt{2} \Gamma_{10} t_{1}} \right) \left( \frac{P_{10}}{2h} \times \frac{\lambda P}{\sqrt{2} \Gamma_{10} t_{1}} \right) \right) \\ & = \frac{1}{2t} \left[ \lambda P \times -\lambda P - \lambda P + \lambda P \times \frac{\lambda P}{\sqrt{2} \Gamma_{10} t_{1}} \right] \left( \frac{P_{10}}{2h} \times \frac{\lambda P}{\sqrt{2} \Gamma_{10} t_{1}} \right) + \frac{1}{2} \right] \\ & = \frac{1}{2t} \left\{ \frac{P_{10}}{2t} \times \frac{\lambda P}{2} + \frac{\lambda P}{2} + \frac{\lambda P}{\sqrt{2} \Gamma_{10} t_{1}} \right\} \\ & = \frac{1}{t} \left( \frac{P_{10}}{2t} \times \frac{\lambda P}{2t} + \frac{\lambda P}{2} + \frac{\lambda P}{\sqrt{2} \Gamma_{10} t_{1}} \right) \left( \frac{P_{10}}{2h} \times \frac{\lambda P}{\sqrt{2} \Gamma_{10} t_{1}} \right) \right) \\ & = \frac{1}{t} \left\{ \frac{P_{10}}{2t} \times \frac{\lambda P}{2} + \frac{2}{2} + \frac{P}{2} + \frac{\lambda P}{\sqrt{2} \Gamma_{10} t_{1}} \right\} \\ & = \frac{1}{t} \left\{ \frac{P_{10}}{2t} \times \frac{\lambda P}{2} + \frac{2}{t} + \frac{P}{2} + \frac{\lambda P}{2} + \frac{\lambda P}{\sqrt{2} \Gamma_{10} t_{1}} \right\} \\ & = \frac{1}{t} \left\{ \frac{P_{10}}{2t} \times \frac{\lambda P}{2} + \frac{P}{2} + \frac{P}{2} + \frac{P}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right\} \\ & = \frac{1}{t} \left\{ \frac{P_{10}}{2t} \times \frac{\lambda P}{2} + \frac{1}{2} + \frac{P}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right\} \\ & = \frac{1}{t} \left\{ \frac{P_{10}}{2t} \times \frac{\lambda P}{2} + \frac{1}{2} + \frac{1}{10} \times \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right\} \\ & = \frac{1}{t} \left\{ \frac{P_{10}}{2t} \times \frac{\lambda P}{2} + \frac{1}{2} + \frac{1}{10} \times \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right\} \\ & = \frac{1}{t} \left\{ \frac{P_{10}}{2t} \times \frac{\lambda P}{2} + \frac{1}{2} + \frac{1}{10} \times \frac{1}{2} + \frac{1$$

$$\frac{Problem 8.3.}{D(\omega)} = \frac{n_{p}}{(k_{T})^{a}} \int_{a}^{A} \frac{S(\omega - c [\frac{1}{4}])^{a}}{\int_{a}^{A} \frac{S(\omega -$$