$$\frac{\pi \cot(\pi z) = \frac{1}{z} + 2z}{z^{2} + 2z} \sum_{n=1}^{\infty} \frac{1}{n^{2} - 2^{2}}$$

$$\frac{1}{z^{2}} - 2z \sum_{n=1}^{\infty} \frac{1}{n^{2} - 2^{2}}$$

$$\frac{1}{z^{2}} - 2z \sum_{n=1}^{\infty} \frac{1}{n^{2} - 2^{2}}$$

$$\frac{1}{z^{2}} = \frac{1 - \pi z \cot(\pi z)}{2z^{2}}$$

$$\frac{1}{z^{2}} =$$

Thu,

 $C_{\infty} = \frac{42}{7B} - 22 \cot\left(\frac{\gamma B}{2}\right) - 82\gamma B \sum_{n=1}^{K} \frac{1}{(2\pi n)^2 - (\beta B)^2}$

and therfore

 $G(r) \approx 2 \chi \gamma \left[\cot \left(\frac{B \gamma}{2} \right) - i \right] + \frac{4 \chi \gamma}{B} \sum_{n=1}^{K} \frac{\gamma_{n} \gamma_{n}^{2}}{\gamma_{n}^{2} - \gamma_{n}^{2}} e^{-\gamma_{n} \gamma_{n}^{2}} e^{-\gamma_{n}^{2}} e^{-\gamma_{n}$

Where Yu = 200 B