Single-channel care

In the multi-channel care:

In the ringle-channel care

$$f_{(xa)}(G) \rightarrow f_{(x)}(G) = e^{i\sigma e} \frac{1}{2} \left[H_{(x)}^{(i)} - S_{(x)} H_{(x)}^{(i)} \right]$$

$$= e^{i\sigma e} \frac{1}{2} \left[e^{-i\sigma e} - e^{2i\sigma e} e^{+i\sigma e} \right] =$$

$$= e^{i\sigma e} \frac{1}{2} e^{i\sigma e} \left[e^{-i\sigma e} - e^{-i\sigma e} - e^{i\sigma e} \right]$$

$$= -2i \operatorname{Sen}(\theta e + \sigma e)$$

Une
$$\operatorname{sen}(Ue + \delta e) = \operatorname{sen} \delta e \operatorname{sen} \mathcal{O} e + \operatorname{sen} \delta e \operatorname{con} \mathcal{O} e$$

$$\Rightarrow \int_{\mathcal{O}} \omega = e^{i(\overline{U}e + \delta e)} \left[\operatorname{con} \delta e \operatorname{sen} \mathcal{O} e + \operatorname{sen} \delta e \operatorname{con} \mathcal{O} e \right] [2]$$

50, in ringle-channel problems, one can use the alternative asymptotic condition:

which has the advantage of being real valued for real potentials