Near W = - We:

H(jw) = | H(jwe) | e j [-\$(we) + \$'(we) (w+ we)]

yH) = 本[[m m(jlw-we)] /H(jwe)/ej[plwe)+p'/we)(w-we)]
. ej wt dw

+ [w/m/j(w+we))/H/jwe)/e)[-\$(we)+\$/we)(w+we)]; int

= 4/2 | H(j we) | (e) \$\int (w \color \left(\sin \color \left(\we) \reft(\w

Change variables:

First integral: s=w-we

Second integral: I = w+ w

yle) = the Hijwe) [ejplwe) [m M(jsz)ejplwe) sej (se+ we)t ds

+ e-jø(we) [m m(jr) ejø/we)r ej(r-ne)t dr]

= |H(Juc) | = [e) (wet + p(we)) + e - j (wet + p(we))]

· 1/2 / M(jn) e j s (t + p'(we)) dr