These equations deal with decibels of loss, rather than of gain.
These equations are from:

Don Lancaster, *Lancaster's Active Filter Cookbook, 2nd edition* (Oxford: Newmes, 1996).

Definitions

$f = frequency$ $\omega = \frac{f_{measured}}{f_{resonant}}$ $S = \omega\sqrt{-1}$

$d = damping$ $Q = \frac{1}{d}$ $K = gain$

$\phi = phase$ $decibels = 20\log_{10}\left[\frac{e_{out}}{e_{in}}\right]$

Second order high-pass

$$\frac{e_{out}}{e_{in}} = \frac{KS^2}{S^2 + dS + 1} = \sqrt{\left(\frac{1}{\omega^4}\right) + \frac{d^2 - 2}{\omega^2} + 1}$$

$$\phi = \tan^{-1}\frac{d \div \omega}{1 - \frac{1}{\omega^2}}$$

Fourth order high-pass

$$\frac{e_{out}}{e_{in}} = \frac{KS^2}{S^2 + dS + 1} \times \frac{KS^2}{S^2 + dS + 1}$$

$$\phi = \left[\tan^{-1}\frac{d \div \omega}{1 - \frac{1}{\omega^2}}\right] + \left[\tan^{-1}\frac{d \div \omega}{1 - \frac{1}{\omega^2}}\right]$$

Second order band-pass

$$\frac{e_{out}}{e_{in}} = \frac{KS}{S^2 + dS + 1} = \sqrt{1 + Q^2\left[\frac{\omega^2 - 1}{\omega}\right]^2}$$

$$\phi = -\tan^{-1} Q^2\left[\frac{\omega^2 - 1}{\omega}\right]$$

Second order low-pass

$$\frac{e_{out}}{e_{in}} = \frac{K}{S^2 + dS + 1} = \sqrt{\omega^4 + \left(d^2 - 2\right)\omega^2 + 1}$$

$$\phi = -\tan^{-1}\frac{d\omega}{1 - \omega^2}$$

Fourth order low-pass

$$\frac{e_{out}}{e_{in}} = \frac{K}{S^2 + dS + 1} \times \frac{K}{S^2 + dS + 1}$$

$$\phi = \left[-\tan^{-1}\frac{d\omega}{1 - \omega^2}\right] + \left[-\tan^{-1}\frac{d\omega}{1 - \omega^2}\right]$$