Fig. 3.22  Gain and phase responses of notch filter.

--- Simulated  --- - Theoretical

3.2.3.4 CONCLUSION

A new biquadratic voltage mode filter realization based on Tow Thomas biquad has been presented. The proposed filter uses six CCCII-s, two each grounded resistors and capacitors. The filter has the following attractive features: (i) it uses only one type of current conveyors (ii) low passive sensitivities (iii) independent control of \( \omega_0 \) without disturbing \( \omega_0/Q_0 \) (iv) independent control of \( Q_0 \) without disturbing \( \omega_0 \) (v) presents high input impedance and thus simplifies higher order filter realization and (v) gain, \( \omega_0 \), \( Q_0 \) and \( \omega_0/Q_0 \) of the circuit are electronically tunable by biasing currents of CCCII-s.