



SIGNAL TRACKING PROPERTIES OF A CLASS OF ADAPTIVE NOTCH FILTERS (MonAmOR7)

★ Author(s) :

Maciej Niedzwiecki
Piotr Kaczmarek

(Gdansk University of Technology, Poland)
(Gdansk University of Technology, Poland)

★ Abstract :

The signal tracking properties of two adaptive notch filtering algorithms are studied analytically using a linear filter approximation technique. Even though restricted to a single frequency case, the presented analysis provides valuable insights into the tracking mechanisms, including the speed/accuracy tradeoffs, the achievable performance bounds, and tracking limitations of the analyzed algorithms. Additionally, it allows one to formulate some useful rules of thumb for choosing design parameters.