

Download Modern Active Filter Design

Active Filter Design. Introduction. It's a jungle out there. Somewhere in the dense wilderness, hidden from the view of the masses is a small tribe, much sought after by the head hunters of the surrounding plains. Active filters are vital in modern electronics; every data acquisition systems need them for bandwidth-limiting signals before ADCs as anti-aliasing filters, or after DACs as anti-imaging filters. Audio crossovers are a type of electronic filter circuitry used in a range of audio applications, to split up an audio signal into two or more frequency ranges, so that the signals can be sent to drivers that are designed for different frequency ranges. In signal processing, a filter is a device or process that removes some unwanted components or features from a signal. Filtering is a class of signal processing, the defining feature of filters being the complete or partial suppression of some aspect of the signal.