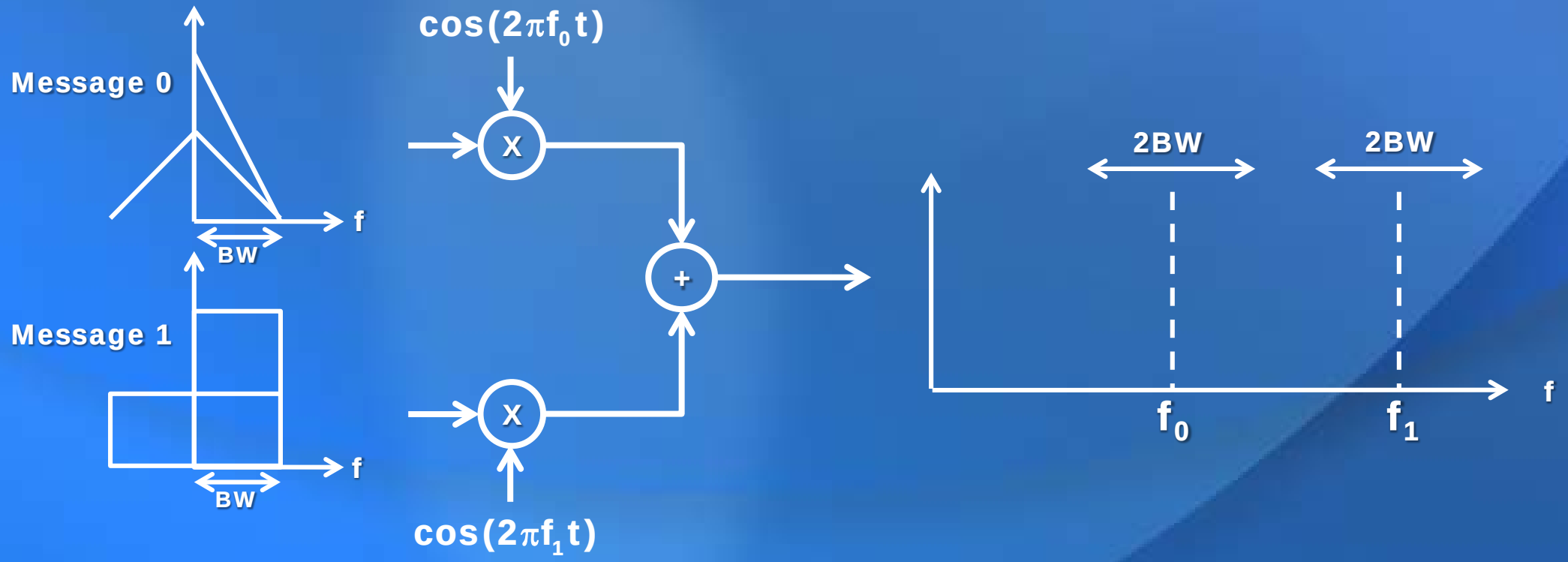
Demodulation

Modulation

Modulation is used to shift the frequency content of signals to different frequency bands, so that they do not interfere.



Recovering the message

To recover the original message, the receiver must

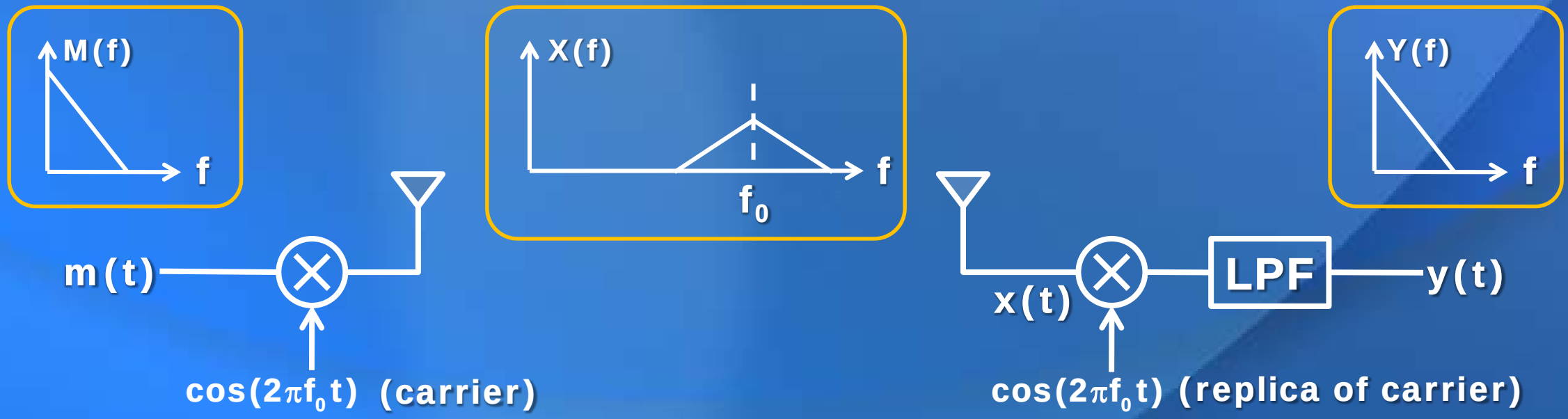
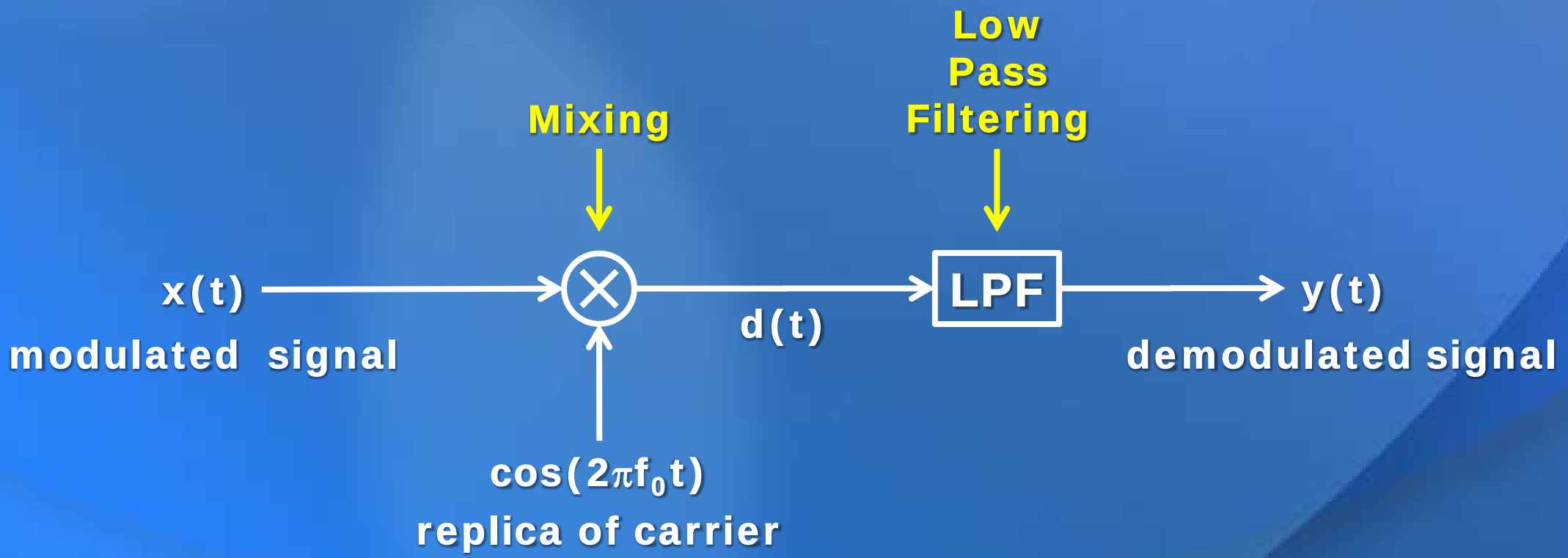
- Shift the message back to baseband
- Remove the unwanted signal at f_1

This process is called demodulation.

Demodulation

Modulation shifts the frequency up by multiplying.

To recover (demodulate) we need to shift down. This can also be done by multiplying, plus an additional low pass filter (LPF).



Demodulation