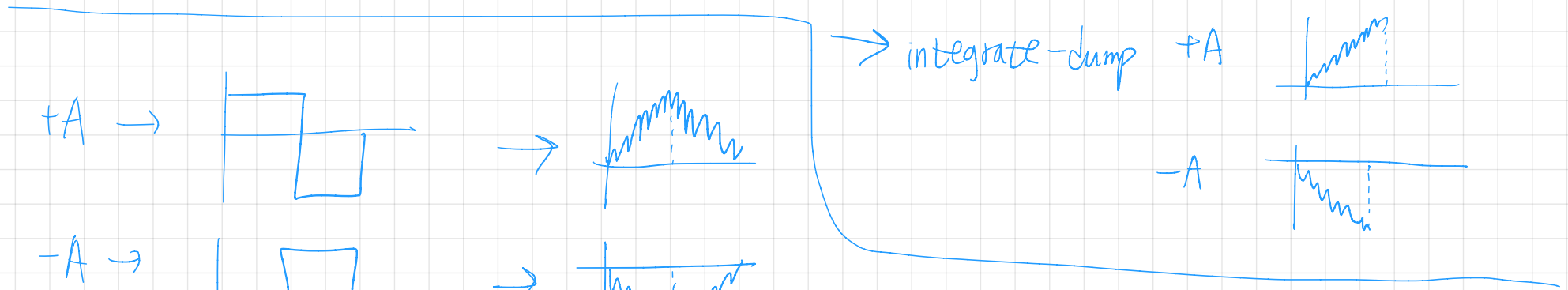
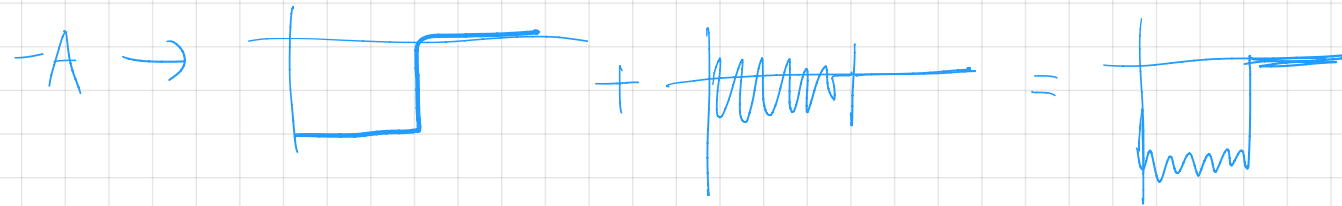


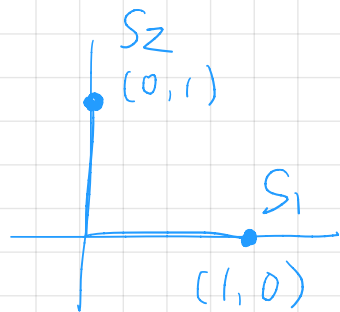
자변시간 (4/6) 요약



요약하자면 ch.9 p.13



10:47AM



$$y = S_i + n$$
$$z = \langle y, w \rangle$$

our designed detector

$$\langle (1, 0), (0, 1) \rangle = 0 \quad (X)$$

$$\langle (1, 0), (1, 0) \rangle = 1 \quad (\text{성공})$$

$$\langle (0, 1), (1, 0) \rangle = 0 \quad (X)$$

$$\langle (0, 1), (0, 1) \rangle = 1 \quad (\text{성공})$$

(noise part (+n)이 있긴 하겠지만 생각)

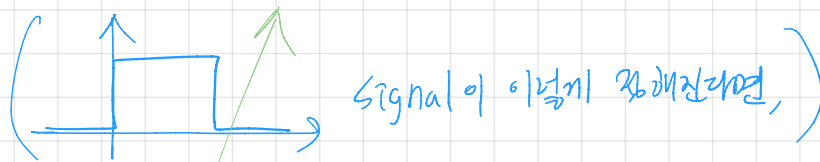
$$\langle f(x), g(x) \rangle = \int_T f(x) g^*(x) dx, \quad \downarrow \text{real 만 다루니까}$$

$$= \int_T f(x) g(x) dx.$$

$$\leq \|f\|_2 \cdot \|g\|_2$$

(쓰다가 알아감)

$$f(x) * h(x) = \int_{-\infty}^{\infty} f(z) h(x-z) dz = \int_T f(z) h(x-z) dz$$



이 부분이 $f(z)$ 랑 딱 맞아떨어지면 (??)

matched filtering (??)

(오늘 할 거)

질문

