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For the example here, there is a phase reversal at the reflector so we take  $\phi_1 = 0$  and  $\phi_2 = \pi$ . Tse and Viswanath:

Fundamentals of Wireless Communication 33 Since the channel (2.14) is linear, it can be described by the response  $h(\tau, t)$  at time  $t$  to an impulse transmitted at time  $t - \tau$ .

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Solution to HW 1 Principles of Wireless Communications I-Hsiang Wang 7. Exercise 3.11 in Tse and Viswanath. Solution. 1. Pfx A|x Bg  $1 + \text{SNR} d$  where  $d$  is the Hamming distance between the binary codewords  $x_A$  and  $x_B$ . The diversity gain of the code is the minimum Hamming distance  $d_{\min}$  between the codewords. 2. It's 2.

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As  $K$  and  $W$  go to  $\infty$  we obtain:  $2 \sqrt{K+1}$   
 $\lim f = K, W$  3. Solutions Manual - Fundamentals of. Wireless Communications ... Tse and Viswanath: Fundamentals of Wireless Communication 3 =  $2 f_i \sin[2 \dots f(t; d=c)] \sin[2 \dots f(t; d=c)] 2d; r(t) + 2 f_i [d; r(t)] \cos[2 \dots f(t; r(t)=c)] r(t) [2d; r(t)]$  (2.1) where we applied the identity.

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Tse and Viswanath: Fundamentals of Wireless Communication 3 =  $2 f_i \sin[2 \dots f(t; d=c)] \sin[2 \dots f(t; d=c)] 2d; r(t) + 2 f_i [d; r(t)] \cos[2 \dots f(t; r(t)=c)] r(t) [2d; r(t)]$

(2.1) where we applied the identity  $\cos x; \cos y = 2 \sin \frac{x+y}{2} \sin \frac{x-y}{2}$ . We observe that the first term of (2.1) is similar in form to equation (2.13) in the notes.

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