

Abstract

This invention discloses a baseband processing method based on smart antenna and interference cancellation, which includes: A. making channel estimation to get channel response; B. picking up useful symbolic level signal from received digital signal by smart antenna beam forming based on the channel estimation; C. making signal reconstruction by using the got useful signal and adding scrambling code to get the chip level reconstructed signal; D. subtracting the reconstructed signal from received digital signal; E. executing steps B to D repeatedly to recover signal for all user. The method of the invention can solve various interference of multi-path propagation in CDMA system with smart antenna and get better results.



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