

METHOD AND SYSTEM FOR ADAPTIVE CHANNEL ESTIMATION IN PILOT SYMBOL ASSISTED MODULATION SYSTEMS

TITLE

Abstract

[0067] The present invention utilizes an adaptive channel estimation unit 29 in a rake finger 12 of a rake receiver 10 of a MSR. The adaptive channel estimation unit 29 provides channel estimates 28 by processing de-spread pilot signals 18 via an optimum averaging length, determined by an adaptive averaging unit in the adaptive channel estimation unit 29. The adaptive channel estimation unit 29 further comprises a channel estimation unit 30 and an adaptive averaging unit 32. The adaptive channel estimation unit 29 first calculates noisy channel estimates 31 and then adaptively determines the optimum averaging length.

[0068] FIG. 5 accompanies the abstract.