

Abstract

A mobile station which tries to start communication sends a communication slot assignment request to a base station at a transmission speed which is slow enough to need no transversal filter. The base station assigns this mobile station a communication slot and sends information on this communication slot assignment to the mobile station at the transmission speed which is slow to enough need no transversal filter. The mobile station sends a training sequence to the base station in the assigned communication slot at a high speed. The base station calculates optimum tap gains of the transversal filter from the training sequence held therein and a signal actually received, by the an adaptive equalizing mechanism. The base station sends the optimum tap gains to the mobile station at the transmission speed which is slow enough to need no the transversal filter. The mobile station sets to the transversal filter the tap gains sent from the base station. Then high-speed communication is started between the base station and the mobile station.