

ABSTRACT

Inter-cell Interference is efficiently mitigated or suppressed in a radio communication system constituting a heterogeneous network. In the radio communication system in which a base station device and a mobile station device communicate with each other, the base station device notifies, to the mobile station device, control information related to a cell-specific reference signal that is specific to a cell ID of another base station device different from the aforesaid base station device, the control information containing information regarding number of ports for the cell-specific reference signal.