

Abstract

A moving body control device is a moving body control device which controls a moving body traveling along a predetermined track, including an information acquisition unit that acquires moving body-specific information including a bogie position and a vehicle body mass, a moving body position, a moving body velocity, and track information including a curvature for each position of the track, and a feedforward steering angle calculation unit that calculates a steering angle by using the moving body-specific information, the moving body position, the moving body velocity, and the track information. The feedforward steering angle calculation unit calculates the steering angle according to a sum of a kinematic component calculated based on a geometrical relationship between the bogie position and the curvature of the track at the moving body position, and a dynamic component calculated based on an equation of motion including the bogie position, the vehicle body mass, the moving body velocity, and the curvature and a curvature change rate of the track at the moving body position.