Answer on Question #53172, Physics Mechanics Kinematics Dynamics

I drive a 18 wheeler. My question is- If my truck is loaded and total weight of the truck and trailer is 79,900 lbs, and I am parked on a road with a slight degree of a incline. Enough that you have to apply the brakes from rolling backwards. Because of the slight incline of the road, can the applied pressure of the weight against the brakes add weight? Because the brakes are adding pressure? I was told this may be true. I have received a ticket saying that one of my azles was over weight. Please let me know anything you find.

Answer:

The axis can be overloaded in the event of non-uniformly distributed load in the truck. Imagine that you are riding a bike and takes other fat to load carrier. Bus rear wheel will sag more than the front. This means that the overload was on the rear axle.

If the inclination angle is small, a slight overload value. For a more specific answer I need to know the angle and the permissible axle loads.