

Stability Study of a Electric Vehicle in a Turn

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ABSTRACT

City walker electric vehicle is not a kind of normal vehicles. Its price is not as high as an usual vehicle so this market is ignored by the main car manufacturers in the world. In this case, it becomes a niche market to the manufacturers in Taiwan. Most of the makers of these kinds of vehicles in Taiwan are medium to small size companies. Their flexibility is high so they can adjust their products according to the market's and custom's requirements rapidly. Because the trend of age increase of the future society, this market will become a progressing and potential market to Taiwan's manufacturers. The current main markets of these kinds of electric vehicles are the developed countries in the world. If there exists any design problem in the product to cause injury of passengers, the suit and compensation cost will be very high. This research will study and improve the stability of the electric vehicles(city walkers) in a turn.

Keywords : electric vehicle ; stability in a turn ; prototype

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