

小四轮拖拉机配套农具纵垂面内悬挂参数和重量限度的计算机辅助设计

A CAD Method for Determining the Parameters of Implement Hitch Linkage and the Weight Limitation of Mounted Implement

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英文关键词: The parameters of implement-hitch linkage, the limitation of weight the computer aide desing, the low-powered tractor with four wheels.

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中文摘要:

本文针对小四轮拖拉机悬挂机构的提升行程和提升能力,研究了确定其配套农具在纵垂面内悬挂参数及重量限度的计算机辅助设计方法;提出了小四轮拖拉机配套农具的瞬时 π_1 点的合理设计区域。计算结果说明提高农具的设计重量限度和重力入土力矩与提高其运输间隙是矛盾的,结合设计优化目标能迅速的设计出最佳方案。

英文摘要:

In accordance with the lifting travel and the lifting power of low-powered tractor with four wheels, a CAD method for determining the parameters of implement-hitch linkage and the weight limitation of mounted implement is developed, and a reasonable area of the implement's instantaneous rotating-center is suggested in this paper. The results gained using this method and its program show that (i) the increase of mounted implement's design weight and its moment of entering the ground is in contradiction with the increase of the angle, which is formed by the inclination of headstock's vertical column when the mounted implement is at the highest position, (ii) combining this method with the optimum objective, we can rapidly find out the best scheme for designing the parameters of implement-hitch linkage and the weight limitation of mounted implement.

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