

## 仿驼步行足的研究

### Study on the Walking Foot Modelled on Camel Paw

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中文摘要:

生活在沙漠地区的骆驼, 不仅对沙漠环境具有很强的适应性, 而且具有很好的通过沙地能力。本文通过对驼足结构、运动方式及对沙地作用等的分析, 根据仿生原理, 提出了仿驼步行的设计原理与方法, 研制了仿驼足机构, 并对其进行了试验。结果表明, 此足性能良好, 为开发步行车辆提供了依据。

英文摘要:

As is well known that a camel living in desert can not only better adapt oneself to the circumstance of desert but also travel on sand with better ability. This paper analyzes the camel foot structure, its locomotion and interaction between camel foot and sand. Based on bionics theory, the theory and method to design the legged vehicle foot modelled on it of camel are established. The mechanism of legged vehicle foot mentioned above has been developed. Its performance are measured. The results of tests indicate that the legged vehicle foot modelled on it of camel can travel on sand with better performance. It makes valuable contribution to the development of legged vehicle.

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