

عنوان مقاله:

Designing and Constructing of Axillary Springy Crutch for Easier Walking of Disable and Elder People

محل انتشار:

دومین کنفرانس بین المللی پژوهش در علوم و تکنولوژی (سال: 1394)

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خلاصه مقاله:

The crutch is an ambulatory device which is uses to improve mobility, maintain balance, increase self-confidence and prevent to falls in disable and elder people. Although the crutch offers physiological and psychological advantages for users but it can led to many difficulties and complications even in axillary types which are more comfort and safe. Large force which induced from long-term application of axillary crutches may be transmitted to the elbow and shoulder joints and led to pain, irritation and injury. So, this study aimed to designing and constructing of axillary springy crutch for easier walking of disable and elder people. The using of spring for its unique feature and capability to energy conservation is common in human and devices mobility. It seems that using spring in crutch structure especially in axillary crutch can led to its less energy exhausting; more comfortably and safety; and fewer complications for its users during its application. Thus, due to the considerable trait, user-friendly and high cost-effectiveness of such crutch, the researchers of this study are strongly suggesting its use in disabled and elder people .for better daily quality of life and more pleasure

کلمات کلیدی:

Springy Crutch, Walking, Disability, Elderly

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