

COMPUTERIZED DESIGN OF TRANSFEMORAL SOCKETS A LITERATURE REVIEW

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ABSTRACT

The Syrian crisis threw its weight on all aspects of social, economic and followed by a parallel rise in the census number of amputations in the upper and lower extremities, which imposed a great interest on the design and of the prostheses. On the other hand, the prostheses design and manufacturing should be achieved according to scientific and academic bases in order to ensure their effectiveness and suitability to the requirements of the patient. For this reason, this study was suggested to summarize previous works for all topics related to the design and manufacturing of lower prosthetics, starting from obtaining the digital model of the stump, passing through the most important principles used to suspend an artificial limb, and finally a summary of the methods used to test the designed parts before their fabrication.

KEYWORDS: *Prosthetists Seek, Artificial Limb & CAD / CAM*

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