Designing Orthopaedic Seat Cushion

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Abstract

This research aims to design a more affordable orthopaedic chair by utilizing rattan as a substitute for latex, the commonly used primary material. The House of Quality (HoQ) method is employed in this study to determine priorities in the design of the orthopaedic seating base. The research findings indicate that factors such as comfort, durability, material strength, and affordability are essential considerations in the development of this product. Thus, the study contributes to the creation of an orthopaedic chair that is not only effective in providing support for orthopaedic issues but is also more economical and utilizes environmentally friendly alternative materials.

Keywords:
Design, QFD, Anthropometry, Rattan.