ANALYSIS OF THE STRESSES IN THE FEMORAL BONE, PREMISE FOR THE HIP PROSTHESIS DIMENSIONING

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Abstract: *The paper presents the 3D modeling of the human femoral bone and the finite element analysis in order to determine the stresses required to optimize the design of hip prosthesis. There are presented theoretical considerations concerning hip prosthesis execution, analysis conditions and results.*

Key words: *femoral bone, 3D modeling, CAD, FEA, hip prosthesis.*

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