DEPARTMENT OF MECHANICS, ROBOTS & MACHINES FACULTY OF MECHANICAL ENGINEERING SILESIAN UNIVERSITY OF TECHNOLOGY

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ABSTRACTS

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Experimental and numerical investigation of mechanical properties of the intracoronary stents

In this paper the results of experimental researches and numerical investigations of

intravascular implants (stents) used in heart's ischaemia disease treatment are presented. During the modelling of the blood-vessel's influence on the stent Final Element Method (FEM) was used. The experiment has been carried out on the stationary stage modelling a pressure of the blood-vessel for the stent. The surgical steel 316 L was taken as the stent material.