

## ANALYSE STATIQUE SUR LA ROTULE

### Authors

---

**Gheorghe PETRACHE<sup>1</sup>, Laurentiu NICULCEA<sup>2</sup>, Alexis TRILLARD<sup>1</sup>, Ionel VIERU<sup>3</sup>, Stefan TABACU<sup>3</sup>, Dan MARINESCU<sup>3</sup>**

<sup>1</sup>Automobile Dacia Pitesti,

<sup>2</sup>ASSYSTEM Romania,

<sup>3</sup>University of Pitesti, Romania

### Abstract

---

**This paper presents the researches done in the aim of changing the material for manufacturing the knee cap. Using the Finite Element Method there were done comparative static analysis in order to determine the Von Mises stresses and deformations.**

### Keywords

---

**Knee cap, FEM, numeric simulation, optimization**