

Tensor

is a mathematical term that represents a generalization of terms **scalar** and **vector**. While a scalar is defined by $3^0 = 1$ coordinates in a 3D space (it can be understood as a tensor of the 0th order) and a vector by $3^1 = 3$ coordinates (vector is namely a tensor of the 1st order), a tensor of the 2nd order is defined by $3^2 = 9$ coordinates. We will not deal with tensors of higher orders than 2.

stress state in a point of the body