

Title (en)

METHOD FOR DETERMINING THE ABILITY OF A BODY TO CHANGE THE SHAPE THEREOF

Title (de)

VERFAHREN ZUR BESTIMMUNG DES FORMÄNDERUNGSVERMÖGENS EINES KÖRPERS

Title (fr)

PROCÉDÉ DE DÉTERMINATION DE LA DÉFORMABILITÉ D'UN CORPS

Publication

**EP 2188747 A1 20100526 (DE)**

Application

**EP 08801169 A 20080820**

Priority

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Abstract (en)

[origin: WO2009024130A1] The invention relates to a method for determining the ability of an analysis body to change the shape thereof using mathematical models. The mathematical models are generated for geometric parameters, which are determined based on test experiments in which a reference body is reshaped or originally shaped in a defined manner. By means of the mathematical models, the ability of a test body to change the shape thereof is then calculated, for the geometry of which a finite element structure is available. For the geometry of the test body a shape factor is known, which characterizes said geometry. The ability of the test body to change the shape thereof is likewise calculated by means of a method based on the finite element method (FEM), wherein then the calculations for the test body are corrected by means of the mathematical models based on a corresponding comparison with the FEM an analysis body is then correlated with the shape factor of the test body, wherein the corrected calculation results from the matrix are applied to the examination body in order to forecast the ability thereof to change the shape thereof.

IPC 8 full level

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