

# NUMERICAL MODELLING OF MATERIAL DEFORMATION PROCESSES%0A

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Schaeffer B ABSTRACT: The mechanical behaviour of composite materials has been simulated numerically without analytical homogenization with Deform 2D, a fully non-linear bidimensional software working on a Macintosh microcomputer, taking advantage of the graphic user

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NUMERICAL MODELLING OF DEFORMATION OF HYPERELASTIC INCOMPRESSIBLE SOLIDS . A.I. Abdrakhmanova\*, L.U. Sultanov . Kazan Federal University, Kremlevskaya st. 18, Kazan, 420008, Russia

### **A new numerical modelling method for deformation behaviour ...**

The procedure described for the numerical modelling of the deformation behaviour of the porous sintered 316L, allows us to analyse the deformation mechanism of the material until its fracture on a macroscopic scale. The results of the numerical calculations were the received stress and strain distributions in deformed material. 5.1.

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Numerical modeling of coupled diffusion-reaction and deformation processes Master thesis in Physics of Geological Processes H kon Storheim 1st June 2011. Preface I would like to thank my supervisors, Anders Malthe-S renssen and Marcin Dabrowski, for good help and guidance throughout the year. Although the main goal not always was de ned, we

### **Experimentally Validated Numerical Modeling of Material ...**

when corresponding material deformation characterisation methods become available, such as e.g. laser extensometry, digital image correlation (DIC) and synchrotron X-Ray diffraction. These are employed to probe the material deformation at the corresponding scales, and serve as excellent tools for the determination of crucially important model

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