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Five Johnson-Cook parameters measured by different means used in [18] were selected to be used in this study with the aim of studying t he influence of them on the SPH model results,Table 1.

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Furthermore, the damage model parameters estimated in this research can be used to model the metal forming simulations, and valuable prediction results for the work material can be achieved. Keywords: AISI-1045 medium carbon steel; Johnson-Cook material and damage model; flow stress; metal forming simulations; surrogate modeling.

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The Johnson-Cook (J-C) material model has been widely used to model impact and penetration-related problems , , , . However, the validity of the J-C material model to simulate the dynamic material behavior and failure under impact loading relevant to the applications, such as sand erosion and foreign object damage (FOD), remains to be confirmed.

"A Thermal-Mechanical Finite Element Analysis of ...

Murugesan, M.; Jung, D.W. Johnson Cook Material and Failure Model Parameters Estimation of AISI-1045 Medium Carbon Steel for Metal Forming Applications. Materials 2019 , 12 , 609. AMA Style

Validation of Johnson-Cook plasticity and damage model ...

FEA modelling. This thesis introduces a calibration method of the Johnson-Cook fracture parameters used in the orthogonal metal cutting modelling with a positive rake angle for AISI 1045 steel. These fracture parameters were obtained based on a set of quasi-static tensile tests, with smooth and pre-notched round bars at room temperature

Johnson Cook Parameter

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Influences Can Be Omitted From The Johnson Cook' 'compressive behavior of aisi 416 stainless steel at june 20th, 2018 - parameters of existing johnson cook compressive behavior of aisi 416 stainless steel at different rates of stress strain behavior of aisi 416 stainless"Johnson Cook Plasticity Model IMechanica

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The material AISI 4140 is simulated using the model employed in [1], the Johnson Cook parameters being changed within an interval of ± 30 %. The inverse analysis is performed using a Kalman filter. The material model for the reference point is validated on the basis of the experimental results in [1], the model being shown to predict the process parameters with a high level of accuracy.

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I am working on 2D orthogonal machining with Johnson-Cook fracture model and using damage evolution in addition to this for accurate chip formation. There are 2 ways in which damage initiation can ...

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Johnson Cook Material and Failure Model Parameters ...

A coupled thermal-mechanical finite element analysis is performed in order to simulate orthogonal cutting of normalized steels. The Johnson-Cook cook material and damage parameters are utilized to define the behavior and failure of the material. Four cases are simulated with workpiece materials of A2024-T351, AISI 1045, AISI 4140, and AISI 9310. The numerical results include the average ...

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In this study, the empirical Johnson-Cook visco-plastic and damage models were used to simulate the deformation behavior obtained experimentally. A series of stress-time plots at various projectile impact momenta were produced ... microstructure of AISI 4340 steel after impact (A. Odeshi, M. Bassim, et al.

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On the calibration strategies of the Johnson-Cook strength model: Discussion and applications to experimental data. Mater. Sci. Eng. A 2015, 610, 220-228. [Google Scholar] Gambirasio, L.; Rizzi, E. An enhanced Johnson-Cook strength model for splitting strain rate and temperature effects on lower yield stress and plastic flow. Comput. Mater.