

Johnson Cook Aluminum

Research in Area of Materials Science Jian Xin Zou 2015-04-07 Selected, peer reviewed papers from the Asia-Pacific Materials Science and Information Technology Conference (APMSIT 2014), December 13-14, 2014, Shanghai, China

Tuning Johnson-Cook Material Model Parameters for Impact of High Velocity, Micron Scale Aluminum Particles Arash Alizadeh Dehkharghani 2016 Cold Spray (CS) is an additive manufacturing process which uses the extreme plastic deformation of micron scale particles to repair surface defects. This process requires accelerating particles to very high velocities (200-1000 m/s) by a supersonic compressed gas jet at temperatures well below particle's melting point. Although many metals and alloys have been successfully processed using the CS techniques, the accurate dynamic responses of individual metallic particles related to the deformation characteristics are still largely unknown. Therefore the main objective of this research is to investigate the mechanics of single particle impact. The outcome of this study can be used to study multi-particle impact and ultimately study the mechanics of 3D-printed metals using CS technology. Numerical simulation has been used to produce the particle impact results. Simulations show that the material experiences very high strain rates (10^7 - 10^8 s⁻¹) causing severe plastic deformation. To conduct an accurate analysis in the simulations, the flow stress of the material should predict appropriate metal behavior at that range of strain rate. In this study the Bilinear Johnson-Cook material model has been used to predict the flow stress and Aluminum-6061 was chosen as the particle's material property. Simulations included the effects of high strain-rate (HSR) plasticity, heat generation and dissipation, material damage, and surface interactions in three dimensions. High strain rate experimental results are usually done by using Split Hopkinson Pressure Bar (SHPB). Since these experiments

have limitation on the maximum strain rate applied to the sample, there is no accurate data for the flow stress of the material at the high rates encountered in CS. Therefore, in this thesis a computational material model calibration has been performed for the Bilinear JC model for the HSR applications. The optimization process uses the method of steepest descent to find the best constants in the Bilinear JC constitutive law. The difference between ellipticity ratio of the deformed particle in simulation and experiments is used as the objective function, and the parameters of the Bilinear JC equation are modified until the objective function is satisfied. The optimized bilinear Johnson-Cook model was used to simulate the deformed shape of particles. The results show a very good agreement between the simulations and single particle impact experiments. The optimized bilinear JC-model was further verified by comparing simulation results of the particle rebound velocity and the coefficient of restitution (COR) to experimental data. The methodology developed in this thesis can be used to develop the model parameters for different materials and other HSR material models.

[THERMEC 2021](#) Mihail Ionescu 2021-01-05 International Conference on Processing & Manufacturing of Advanced Materials Processing, Fabrication, Properties, Applications Selected, peer-reviewed papers from the International Conference on Processing & Manufacturing of Advanced Materials Processing, Fabrication, Properties, Applications (THERMEC 2021), May 10-14, 2021, Vienna, Austria
Advanced Materials and Manufacturing Technology IV Hun Guo 2020-10-05 Special topic volume with invited peer-reviewed papers only
Dynamic Behavior of Materials, Volume 1 Steven Mates 2022-01-01 Dynamic Behavior of Materials, Volume 1 of the Proceedings of the 2021 SEM Annual Conference & Exposition on Experimental and Applied Mechanics, the first volume of four from the Conference, brings together contributions to this important area of research and engineering. The

collection presents early findings and case studies on fundamental and applied aspects of Experimental Mechanics, including papers on: Synchrotron Applications/Advanced Dynamic Imaging Quantitative Visualization of Dynamic Events Novel Experimental Techniques Dynamic Behavior of Geomaterials Dynamic Failure & Fragmentation Dynamic Response of Low Impedance Materials Hybrid Experimental/Computational Studies Shock and Blast Loading Advances in Material Modeling Industrial Applications

Manufacturing Science and Technology (ICMST2013) Ahmad Ghanbari 2013-09-23 Selected, peer reviewed papers from the 2013 4th International Conference on Manufacturing Science and Technology (ICMST 2013), August 3-4, 2013, Dubai, UAE

Sustainable Development Research in Materials and Energy Kibret Mequanint 2024-12-19 This book presents current research, recent advances, and emerging technologies on sustainable development issues in materials and energy. It covers various methods, including numerical and experiment analysis. The coverage of materials includes: Advanced manufacturing and materials processing; Biodegradable and bio-inspired materials; Functional materials and their behavior; Investigation on synthetic versus natural fiber; Thermal and strength analysis of bamboo; Materials for energy storage, conversion, and transmission and structural materials; Soft materials, composites, and fibers. Studies on renewable and green energy systems and sources include: Research on wind, solar, and biomass energy conversion systems; Renewable resources potential assessment, energy storage; Energy-saving and efficient technologies; Stirling heat pumps; Human energy acquisition; CO2 capture storage and utilization; Energy conversion systems; Energy policies and economics; State-of-the-art renewable energy conversion systems. The book provides researchers, engineers, industry professionals, graduate students, and practitioners with state-of-the-art research on engineering materials, material science, sustainable energy engineering, and energy technology in developing countries.

Proceedings of the ASME Manufacturing Engineering Division ... 2003 Strength and Protection of Materials Karel Dvořák 2022-10-28 Special

topic volume with invited peer-reviewed papers only

Damage Modeling of Composite Structures Pengfei Liu 2021-03-10 Damage Modeling of Composite Structures: Strength, Fracture, and Finite Element Analysis provides readers with a fundamental overview of the mechanics of composite materials, along with an outline of an array of modeling and numerical techniques used to analyze damage, failure mechanisms and safety tolerance. Strength prediction and finite element analysis of laminated composite structures are both covered, as are modeling techniques for delaminated composites under compression and shear. Viscoelastic cohesive/friction coupled model and finite element analysis for delamination analysis of composites under shear and for laminates under low-velocity impact are all covered at length. A concluding chapter discusses multiscale damage models and finite element analysis of composite structures. - Integrates intralaminar damage and interlaminar delamination under different load patterns, covering intralaminar damage constitutive models, failure criteria, damage evolution laws, and virtual crack closure techniques - Discusses numerical techniques for progressive failure analysis and modeling, as well as numerical convergence and mesh sensitivity, thus allowing for more accurate modeling - Features models and methods that can be seamlessly extended to analyze failure mechanisms and safety tolerance of composites under more complex loads, and in more extreme environments - Demonstrates applications of damage models and numerical methods

Frontiers of Manufacturing and Design Science Ran Chen 2010-12-06 Selected, peer reviewed papers from the 2010 International Conference on Frontiers of Manufacturing and Design Science (ICFMD 2010), Chongqing, China, December 11-12, 2010

Equipment Manufacturing Technology and Automation Xin Chen 2011-08-16 Selected papers from the 2011 International Conference on Advanced Design and Manufacturing Engineering (ADME 2011), 16-18 September 2011, Guangzhou, China

An Evaluation of the Johnson-Cook Model to Simulate Puncture of 7075 Aluminum Plates 2014 The objective of this project was to

evaluate the use of the Johnson-Cook strength and failure models in an adiabatic finite element model to simulate the puncture of 7075- T651 aluminum plates that were studied as part of an ASC L2 milestone by Corona et al (2012). The Johnson-Cook model parameters were determined from material test data. The results show a marked improvement, in particular in the calculated threshold velocity between no puncture and puncture, over those obtained in 2012. The threshold velocity calculated using a baseline model is just 4% higher than the mean value determined from experiment, in contrast to 60% in the 2012 predictions. Sensitivity studies showed that the threshold velocity predictions were improved by calibrating the relations between the equivalent plastic strain at failure and stress triaxiality, strain rate and temperature, as well as by the inclusion of adiabatic heating.

Material Forming ESAFORM 2015 Aldo Ofenheimer 2015-07-10

Selected, peer reviewed papers from the 18th International ESAFORM Conference on Material Forming (ESAFORM 2015), April 15-17, 2015, Graz, Austria

Industrial Automation and Robotics Kaushik Kumar 2022-10-07 This book discusses the radical technological changes occurring due to Industry 4.0, with a focus on offering a better understanding of the Fourth Industrial Revolution. It also presents a detailed analysis of interdisciplinary knowledge, numerical modeling and simulation, and the application of cyber-physical systems, where information technology and physical devices create synergic systems leading to unprecedented efficiency. The book focuses on industrial applications of automation and robotics. It covers recent developments and trends occurring in both computer-aided manufacturing techniques, as well as computer-aided assembly techniques. Robots using embedded systems and artificial intelligence applications are also covered. *Industrial Automation and Robotics: Techniques and Applications* offers theoretical results, practical solutions, and guidelines that are valuable for both researchers and those working in the area of engineering.

Shock Compression of Condensed Matter 2009 Mark L. Elert 2009-12-22 This volume embodies the most recent research on shock

compression of condensed matter, and includes 363 plenary, invited and contributed papers on topics including equation of state, phase transitions, chemical reactions, warm dense matter, fracture, geophysics and planetary science, energetic materials, optical studies, materials modeling, and recent experimental developments in the field of shock compression of condensed matter.

Shock Compression of Condensed Matter--2007 Mark Elert 2007

Anti-Fatigue Design and Manufacturing Technologies I Dun Wen Zuo 2012-01-03 Special topic volume with invited peer reviewed papers only

Johnson-Cook Material Model Constants for Three Aluminum Based

Particulate Metal Matrix Composites Haylan Hamid Hilfi 1994

Shock Compression of Condensed Matter--1995 S. C. Schmidt 1996

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