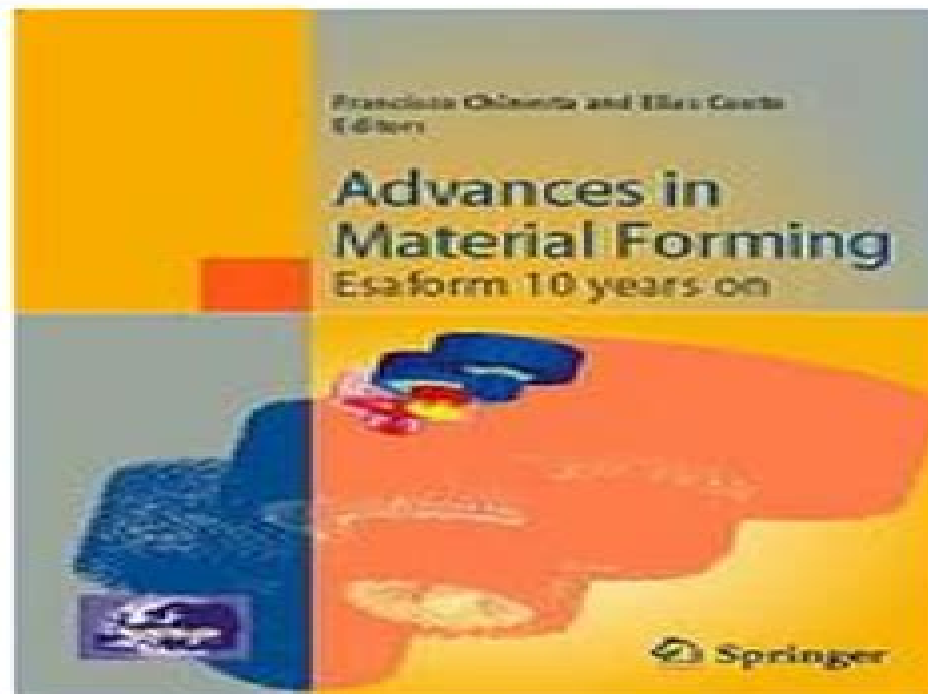


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60 Excellent Inventions in Metal Forming A. Erman Tekkaya, Werner Homberg, Alexander Brosius, 2015-05-04 60 novel approaches in metal forming are presented and explained in detail Contributions from acknowledged international scientists representing the state of art in metal forming open a general view on recent results and a clear view on demands for new research initiatives

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Modeling the Material Behavior under Metal Cutting Conditions Marvin Hardt, 2022-03-16 The scientific goal of the present work was to model the workpiece material behavior of steels in the metal cutting process depending on the occurring thermo mechanical loads The results of this work shall make a significant contribution to the predictive process design of the cutting process by means of Finite Element FE simulations for the virtual representation of the reality in the sense of the digital twin To achieve the objective extensive empirical examinations were conducted in a first step which included conventional material scientific and orthogonal cutting tests This enabled the establishment of a database of the workpiece response with increasing thermo mechanical loads During the orthogonal cutting examinations integral and locally resolved process results were measured which were used as calibration and validation variables in the modeling of the

workpiece material behavior By extending an established friction test bench with a workpiece pre heating system the friction conditions between tool and workpiece could be investigated under conditions equivalent to the cutting process Based on the experimental results a friction model was derived in which the observed effects of thermal softening and the localized adhesion induced increase in the apparent friction coefficient were superposed A phenomenological material model was developed to describe the workpiece material behavior in the cutting process The formulation of the material model was developed based on empirical examinations as well as results from the state of the art The material model was implemented in an FE chip formation simulation using a subroutine A hybrid optimization algorithm was developed to inversely determine the material model parameters By means of the optimization algorithm the material model parameters could be systematically determined inversely taking the experimentally determined process observables into account An automated procedure linked to a user interface lowered the entry hurdle for industrial companies and unexperienced users of FE simulations and reduced the computational effort for the inverse parameter determination to about 10 days of computational execution time The quality of the developed models and the determined model parameters were further verified by a final deduction step using the industrial example of face turning Sheet Metal Forming Processes Dorel Banabic, 2010-06-21

The concept of virtual manufacturing has been developed in order to increase the industrial performances being one of the most efficient ways of reducing the manufacturing times and improving the quality of the products Numerical simulation of metal forming processes as a component of the virtual manufacturing process has a very important contribution to the reduction of the lead time The finite element method is currently the most widely used numerical procedure for simulating sheet metal forming processes The accuracy of the simulation programs used in industry is influenced by the constitutive models and the forming limit curves models incorporated in their structure From the above discussion we can distinguish a very strong connection between virtual manufacturing as a general concept finite element method as a numerical analysis instrument and constitutive laws as well as forming limit curves as a specificity of the sheet metal forming processes Consequently the material modeling is strategic when models of reality have to be built The book gives a synthetic presentation of the research performed in the field of sheet metal forming simulation during more than 20 years by the members of three international teams the Research Centre on Sheet Metal Forming CERTETA Technical University of Cluj Napoca Romania AutoForm Company from Zurich Switzerland and VOLVO automotive company from Sweden The first chapter presents an overview of different Finite Element FE formulations used for sheet metal forming simulation now and in the past

Fundamentals of Aluminium Metallurgy Roger Lumley, 2018-05-22 Fundamentals of Aluminium Metallurgy Recent Advances updates the very successful book Fundamentals of Aluminium Metallurgy As the technologies related to casting and forming of aluminum components are rapidly improving with new technologies generating alternative manufacturing methods that improve competitiveness this book is a timely resource Sections provide an overview of recent research

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Plasticity-Damage Couplings: From Single Crystal to Polycrystalline Materials Oana Cazacu,Benoit Revil-Baudard,Nitin Chandola,2018-07-19 Offering a well balanced blend of theory and hands on applications this book presents a unified framework for the main dissipative phenomena in metallic materials plasticity and damage Based on representation theory for tensor functions and scale bridging theorems this framework enables the development of constitutive models that account for the influence of crystallographic structures and deformation mechanisms on the macroscopic behavior It allows readers to develop a clear understanding of the range of applicability of any given model as well as its capabilities and limitations and provides procedures for parameter identification along with key concepts necessary to solve boundary value problems making it useful to both researchers and engineering practitioners Although the book focuses on new contributions to modeling anisotropic materials the review of the foundations of plasticity and models for isotropic materials completed with detailed mathematical proofs mean that it is self consistent and accessible to graduate students in engineering mechanics and material sciences

Encyclopedia of Aluminum and Its Alloys, Two-Volume Set (Print) George E. Totten,Murat Tiryakioglu,Olaf Kessler,2018-12-07 This encyclopedia written by authoritative experts under the guidance of an international panel of key researchers from academia national laboratories and industry is a comprehensive reference covering all major aspects of metallurgical science and engineering of aluminum and its alloys Topics covered include extractive metallurgy powder metallurgy including processing physical metallurgy production engineering corrosion engineering thermal processing processes such as metalworking and welding heat treatment rolling casting hot and cold forming surface engineering and structure such as crystallography and metallography

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