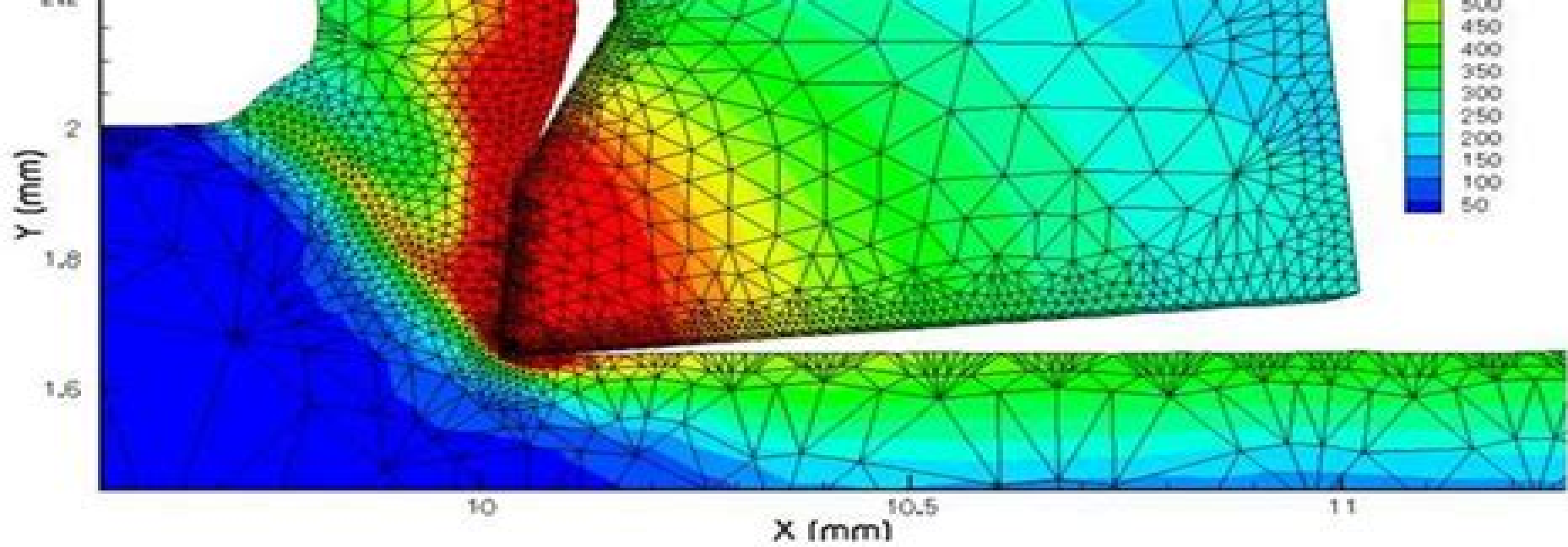
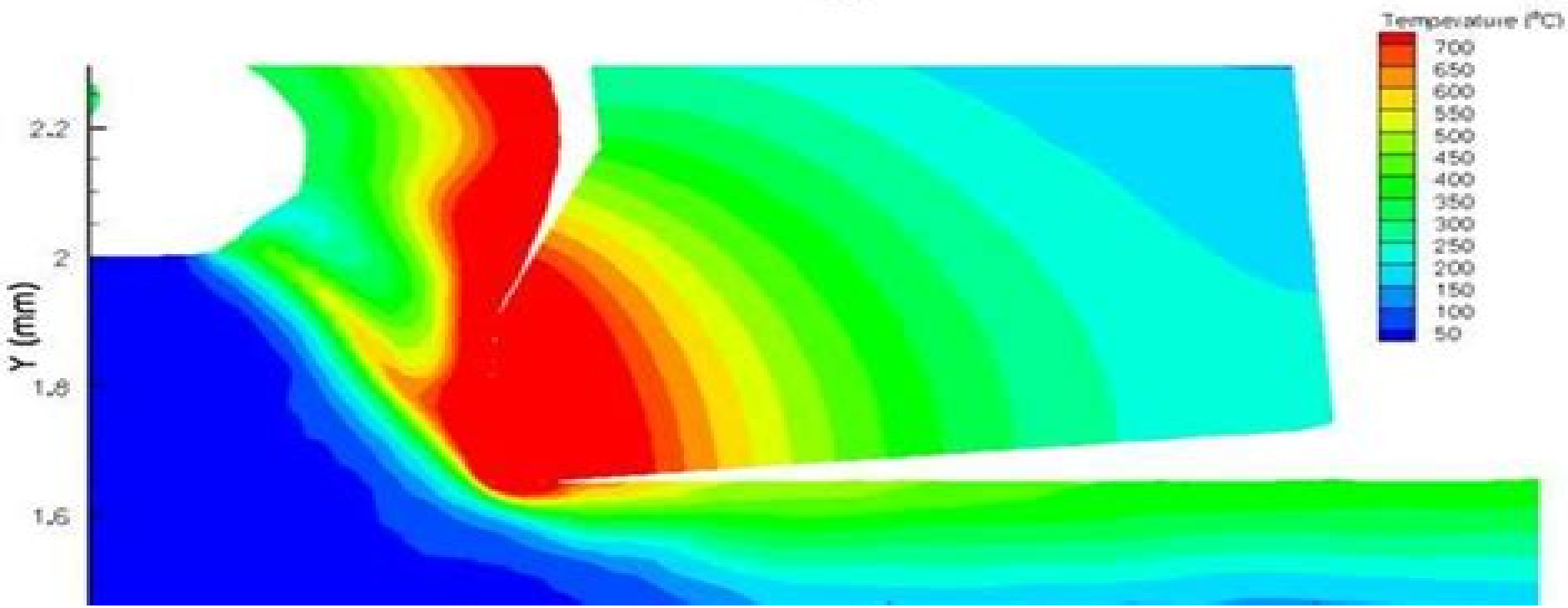




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Metal Cutting Simulation

Christian G. Meyer



Metal Cutting Simulation:

SIMULATION OF ORTHOGONAL METAL CUTTING BY FINITE ELEMENT ANALYSIS. , The aim of this thesis is to compare various simulation models of orthogonal cutting process with each other as well as with various experiments The effects of several process parameters such as friction and separation criterion on the results are analyzed As simulation tool commercial implicit finite element codes MSC Marc Deform2D and the explicit code Thirdwave AdvantEdge are used Separation of chip from the workpiece is achieved either only with continuous remeshing or by erasing elements according to the damage accumulated From the results cutting and thrust forces shear angle chip thickness and contact length between the chip and the rake face of the tool can be estimated For verification of results several cutting experiments are performed at different cutting conditions such as rake angle and feed rate Results show that commercial codes are able to simulate orthogonal cutting operations within reasonable limits Friction is found to be the most critical parameter in the simulation since good agreement can be achieved for individual process variables by tuning it Therefore simulation results must be assessed with all process variables and friction parameter should be tuned according to the shear angle results Plain damage model seems not appropriate for separation purposes of machining simulations On the other hand although remeshing gives good results it leads to the misconception of crack generation at the tip of the tool Therefore a new separation criterion is necessary to achieve both good physical modeling and prediction of process variables *Metal Cutting Simulation of 4340 Steel Using an Accurate Mechanical Description of Material Strength and Fracture* ,1996 Strength and fracture constitutive relationships containing strain rate dependence and thermal softening are important for accurate simulation of metal cutting The mechanical behavior of a hardened 4340 steel was characterized using the von Mises yield function the Mechanical Threshold Stress model and the Johnson Cook fracture model This constitutive description was implemented into the explicit Lagrangian FEM continuum mechanics code EPIC and orthogonal plane strain metal cutting calculations were performed Heat conduction and friction at the toolwork piece interface were included in the simulations These transient calculations were advanced in time until steady state machining behavior force was realized Experimental cutting force data cutting and thrust forces were measured for a planning operation and compared to the calculations 13 refs 6 figs **Finite Element Simulation of Orthogonal Metal Cutting Using an ALE Approach** Abdulfatah Maftah,2008 **Mathematics in Industrial Problems** Avner Friedman,1998-06-12 This is the tenth volume in the series Mathematics in Industrial Problems The motivation for these volumes is to foster interaction between Industry and Mathematics at the grass roots level that is at the level of specific problems These problems come from Industry they arise from models developed by the industrial scientists in ventures directed at the manufacture of new or improved products At the same time these problems have the potential for mathematical challenge and novelty To identify such problems I have visited industries and had discussions with their scientists Some of the scientists have subsequently presented their problems in the IMA Seminar on Industrial

Problems The book is based on the seminar presentations and on questions raised in subsequent discussions Each chapter is devoted to one of the talks and is self contained The chapters usually provide references to the mathematical literature and a list of open problems which are of interest to the industrial scientists For some problems a partial solution is indicated briefly The last chapter of the book contains a short description of solutions to some of the problems raised in the previous volume as well as references to papers in which such solutions have been published The speakers in the Seminar on Industrial Problems have given us at the IMA hours of delight and discovery

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machine materials as well as a full description of minimum quantity lubrication systems tooling and processing practices In addition updated topics include machine tool types and structures cutting tool materials and coatings cutting mechanics and temperatures process simulation and analysis and tool wear from both chemical and mechanical viewpoints Comprised of 17 chapters this detailed study Describes the common machining operations used to produce specific shapes or surface characteristics Contains conventional and advanced cutting tool technologies Explains the properties and characteristics of tools which influence tool design or selection Clarifies the physical mechanisms which lead to tool failure and identifies general strategies for reducing failure rates and increasing tool life Includes common machinability criteria tests and indices Breaks down the economics of machining operations Offers an overview of the engineering aspects of MQL machining Summarizes gear machining and finishing methods for common gear types and more Metal Cutting Theory and Practice Third Edition emphasizes the physical understanding and analysis for robust process design troubleshooting and improvement and aids manufacturing engineering professionals and engineering students in manufacturing engineering and machining processes programs **Finite Element Simulation of Metal Cutting for Predicting Residual Stresses from Turning** Marcello Salio,2003

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