

A Finite Element Study of Chip Formation Process in Orthogonal Machining

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ABSTRACT

This paper examines the plane strain 2D Finite Element (FE) modeling of segmented, as well as continuous chip formation while machining AISI 4340 with a negative rake carbide tool. The main objective is to simulate both the continuous and segmented chips from the same FE model based on FE code ABAQUS/Explicit. Both the adiabatic and coupled temperature displacement analysis has been performed to simulate the right kind of chip formation. It is observed that adiabatic hypothesis plays a critical role in the simulation of segmented chip formation based on adiabatic shearing. The numerical results dealing with distribution of stress, strain and temperature for segmented and continuous chip formations were compared and found to vary considerably from each other. The simulation results were also compared with other published results; thus validating the developed model.

Keywords: Adiabatic Shearing, ALE, Finite Element Simulation, Machining, Segmented Chip

INTRODUCTION

Machining is a term that covers a large collection of manufacturing processes designed to remove material from a workpiece. This is one of the most important mechanical processes in industry because almost all the products get their final shape and size by material removal either directly or indirectly. Although metal cutting process is commonplace, the underlying physical phenomena are highly complex.

Therefore, this area has always been of great interest to the researchers. During the cutting process, the unwanted material is removed from the workpiece with the aid of a machine tool and a cutting tool by straining a local region of the workpiece by the relative motion of the tool and the workpiece. As the tool advances, the material ahead of it is sheared continuously along a narrow zone called the shear plane; thus, removing the excess material in the form of chip that flows along the rake surface of the tool.

Chip formation and its morphology are the key areas in the study of machining process

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An Analytical Study and Finite Element Modeling of Chip Formation in Metal Machining Process Qufei Xie,1993

Statistical and Computational Techniques in Manufacturing J. Paulo Davim,2012-03-06 In recent years interest in developing statistical and computational techniques for applied manufacturing engineering has been increased Today due to the great complexity of manufacturing engineering and the high number of parameters used conventional approaches are no longer sufficient Therefore in manufacturing statistical and computational techniques have achieved several applications namely modelling and simulation manufacturing processes optimization manufacturing parameters monitoring and control computer aided process planning etc The present book aims to provide recent information on statistical and computational techniques applied in manufacturing engineering The content is suitable for final undergraduate engineering courses or as a subject on manufacturing at the postgraduate level This book serves as a useful reference for academics statistical and computational science researchers mechanical manufacturing and industrial engineers and professionals in industries related to manufacturing engineering *Dynamic Methods and Process Advancements in Mechanical, Manufacturing, and Materials Engineering* Davim, J. Paulo,2012-07-31 Engineering and design are often a necessary steps for an industry to become effective Industry modeling can help to bridge the communication gap among engineers and system designers *Dynamic Methods and Process Advancements in Mechanical Manufacturing and Materials Engineering* examines the principles of physics and materials science for analysis design manufacturing and maintenance of mechanical equipments and systems Targeting researchers practitioners and academicians this volume promotes innovative findings in mechanical manufacturing and materials engineering *Light Metals—Advances in Research and Application: 2012 Edition* ,2012-12-26 *Light Metals Advances in Research and Application 2012 Edition* is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Light Metals The editors have built *Light Metals Advances in Research and Application 2012 Edition* on the vast information databases of ScholarlyNews You can expect the information about Light Metals in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of *Light Metals Advances in Research and Application 2012 Edition* has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> *Applied Mechanics Reviews* ,1974

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Machining Processes provides a concise study on the way the Finite Element Method FEM is used in the case of manufacturing processes primarily in machining The basics of this kind of modeling are detailed to create a reference that will provide guidelines for those who start to study this method now but also for scientists already involved in FEM and want to expand their research A discussion on FEM formulations and techniques currently in use is followed up by machining case studies Orthogonal cutting oblique cutting 3D simulations for turning and milling grinding and state of the art topics such as high speed machining and micromachining are explained with relevant examples This is all supported by a literature review and a reference list for further study As FEM is a key method for researchers in the manufacturing and especially in the machining sector Finite Element Method in Machining Processes is a key reference for students studying manufacturing processes but also for industry professionals

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