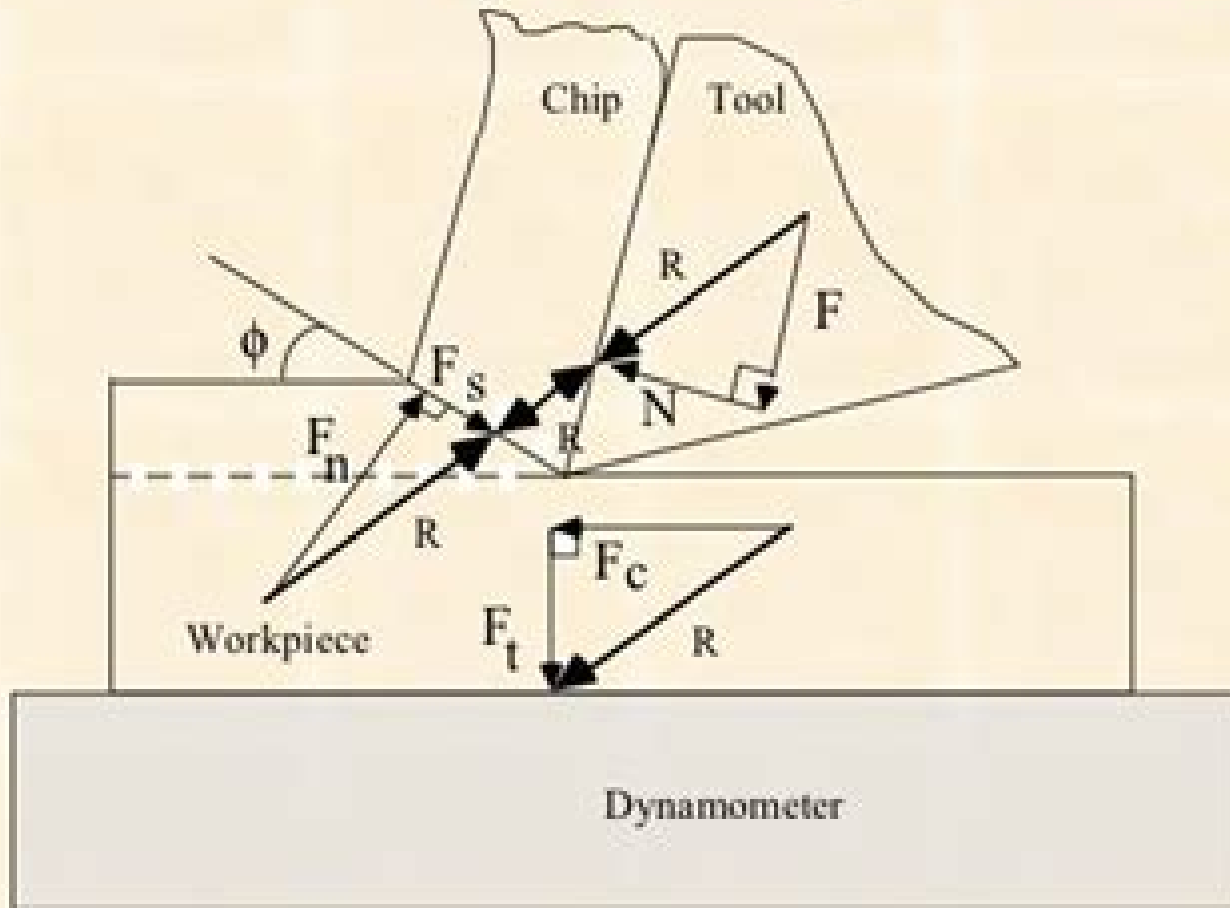


Cutting Forces

(2D Orthogonal Cutting)



Generally we know:
Tool geometry & type
Workpiece material

and we wish to know:

F = Cutting Force
 F_c = Thrust Force
 F_t = Friction Force
 N = Normal Force
 F_s = Shear Force
 F_n = Force Normal

to Shear

Free Body Diagram

Metal Cutting Mechanics

David A. Stephenson, John S. Agapiou



Metal Cutting Mechanics:

Metal Cutting Theory and Practice David A. Stephenson, John S. Agapiou, 2018-09-03 A Complete Reference Covering the Latest Technology in Metal Cutting Tools Processes and Equipment *Metal Cutting Theory and Practice* Third Edition shapes the future of material removal in new and lasting ways Centered on metallic work materials and traditional chip forming cutting methods the book provides a physical understanding of conventional and high speed machining processes applied to metallic work pieces and serves as a basis for effective process design and troubleshooting This latest edition of a well known reference highlights recent developments covers the latest research results and reflects current areas of emphasis in industrial practice Based on the authors extensive automotive production experience it covers several structural changes and includes an extensive review of computer aided engineering CAE methods for process analysis and design Providing updated material throughout it offers insight and understanding to engineers looking to design operate troubleshoot and improve high quality cost effective metal cutting operations The book contains extensive up to date references to both scientific and trade literature and provides a description of error mapping and compensation strategies for CNC machines based on recently issued international standards and includes chapters on cutting fluids and gear machining The authors also offer updated information on tooling grades and practices for machining compacted graphite iron nickel alloys and other hard to 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

Metal Cutting Mechanics Viktor P. Astakhov, 1998-12-22 *Metal Cutting Mechanics* outlines the fundamentals of metal cutting analysis reducing the extent of empirical approaches to the problems as well as bridging the gap between design and manufacture The author distinguishes his work from other works through these aspects considering the system engineering of the cutting process id [Manufacturing Automation](#) Yusuf Altintas, 2012-01-30 A professional reference and textbook on metal cutting considering scientific principles and their practical application to

manufacturing problems **Metal cutting mechanics** ,1966 **Metal Cutting : Mechanics and Applications** de Chiffre (Leonardo),1990 **Metal cutting mechanics** N. N. Zorev,1966 **Metal Cutting Mechanics and Applications** L. de Chiffre,1990 **Analysis of Metal Cutting Mechanics** James Douglas Cumming,1964 Metal Cutting Technologies J. Paulo Davim,2016-09-26

Metal cutting is a science and technology of great interest for several important industries such as automotive aeronautics aerospace moulds and dies biomedicine etc Metal cutting is a manufacturing process in which parts are shaped by removal of unwanted material The interest for this topic increased over the last twenty years with rapid advances in materials science automation and control and computers technology The present volume aims to provide research developments in metal cutting for modern industry This volume can be used by students academics researchers and engineering professionals in mechanical manufacturing and materials industries

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Mechanics Vijaykumar Navnitlal Chokshi,1965 *Generalized Modeling of Metal Cutting Mechanics* ,2008 Metal cutting is
the most commonly used manufacturing process for producing parts with final dimensions The aim of engineering science is
to model the physics of the process which allows the simulation of part machining operations ahead of costly trials There is a
need to develop generalized models of cutting process which is applicable to various tool geometries and cutting processes in
order to simulate machining of industrial parts in virtual environment This thesis presents a generalized mathematical model
which can be used to predict turning drilling boring and milling processes The tool geometry is adopted from ISO 13399
standards The rake face of the tool is mathematically modeled from ISO13399 model by considering tool geometry
engagement with the workpiece feed and speed directions of cutting motion Various geometric features of the tool such as
chamfer nose radius and cutting edge angles are considered in developing coordinate transformation models between the
machine motion and tool coordinate systems The cutting forces on the rake face are defined in the direction of chip flow and
perpendicular to the rake face The cutting force coefficients in the two directions are either identified mechanistically by
conducting experiments specific to the tool geometry or using orthogonal to oblique transformation of shear angle average
friction angle and shear stress The friction and normal forces on the rake face are transformed to both stationary and
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