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Design Principles of Metal-Cutting Machine Tools discusses the fundamentals aspects of machine tool design. The book covers the design consideration of metal-cutting machine, such as static and dynamic stiffness, operational speeds, gearboxes, manual, and automatic control.

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Principle of Metal Cutting: A typical metal cutting process by single point cutting tool is shown in Fig. 9.2. In this process, a wedge shaped tool moves relative to the work piece at an angle a. As the tool makes contact with the metal, it exerts pressure on it.

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Thus the metal gets compressed very severely, causing shear stress. This stress is maximum along the plane is called shear plane. If the material of the workpiece is ductile, the material flows plastically along the shear plane, forming chip, which flows upwards along the face

of the tool. The tool will cut or shear off the metal, provided

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UNIT 2 DESIGN OF SINGLE POINT CUTTING Point Cutting Tools ...
This book identifies the major problem areas of metal cutting during the production of mechanical

components. Thoroughly updated with new questions and exercises at the end of each chapter, the book relates observed performance in metal cutting to fundamental physics, materials behavior, and chemistry.

mechanical engineering: Principle Elements of Metal Machining

Cutting Tool is a wedge shaped device that actually removes (shears off) excess material from a preformed blank in order to obtain desired shape, size and accuracy. So cutting tool is indispensably necessary device for machining or metal cutting operation. The greater the precision in the design, the greater will be the quality of the output.

What is principle of cutting tools? - Quora
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Introduction

2.5 Calculation of Forces and Design for Cutting Forces 2.6 Summary 2.7 Key Words 2.8 Answers to SAQs 2.1 INTRODUCTION Design of single point cutting tool is an important aspect of tool engineering. This unit deals with the design of tool shank, design of single point cutting tool, and various forces involved during machining of the workpiece.

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Fundamentals of Cutting - IIT Kanpur

Principle Elements of Metal Machining: 1: Cutting Speed: The cutting speed can be defined as the relative surface speed between the tool and the job. It is a relative term since either the tool or the job or both may be moving during cutting. It is expressed in m/min.