

# **MACHINE TOOL DESIGN**

GENERAL  
EDITOR

N. ACHERKAM, D. Sc.



**VOL. 2**

# Machine Tool Design Volume 2

**Jiyuan Zhang**



## **Machine Tool Design Volume 2:**

*Machine Tool Design* N. Acherkan, N. Lisitsyn, 1973

Machine Tool Design N. Ignatyev, N. Acherkan, Yu Mikheyev, 2000

This is volume 4 of a fundamental four volume work translated from the considerably revised second edition. It should be of great value to engineers engaged in the design, manufacture and maintenance of machine tool equipment. It can also be used to advantage by the students of engineering institutes majoring in Process Engineering, Metal Cutting, Machine Tools or Cutting Tool Design. The first volume deals with the basic machine tools and special machine tools used in cutting tool production. The classification, type and size range and designation of machine tools employed in Soviet practice are given in detail together with the types of motion found in machine tools. Metal cutting lathes, turret lathes, vertical boring machines, automatic and semiautomatic lathes, milling machines and many other types of machine tools are described. Special attention has been given to machine tools designed for the production of cutting tools. These include general and single purpose semiautomatic precision thread grinding machines, automatic and semiautomatic tracer controlled lathes with hydraulic controls, jig boring machines and specialized machine tools as well as automatic transfer machines for cutting tool production. Volume two contains Parts Three and Four. Part Three deals with the kinematics of machine tools. This branch of machine tool design has been strictly systematized by the author and is set forth with exceptional clarity. The kinematic structures of a great many different types of machine tools, including the most complex gear cutting machines, are analyzed by methods developed in the text which take into consideration the interrelation between the workpiece to be produced in the given machine tool. Part Four takes up hydraulic drives of machine tools. It contains all the theoretical and practical data required in the application of fluid power and control systems to machine tools. Volume Three contains Part Five and this deals with machine tool design proper. It is a comprehensive scientific treatment of the subject and is a revised and complemented version of a previous Russian edition which has become a reliable reference book for all Soviet machine tool engineers and has been translated into French. Such questions as performance criteria, basic design data, principal specifications and the development of the kinematic scheme of a new machine tool are dealt with in great detail. Design recommendations are given as well as the necessary calculation data for the basic elements of machine tools: speed and feed gearboxes, stepless drives, rapid traverse mechanisms, spindles and spindle bearings, mechanisms for rectilinear motion, small displacement and periodic motion reversing devices, beds, columns, tables and other housing type components, slideways and antifriction ways. The fourth and final volume covers Automatic Machine Tools and Transfer Machines and Machine Tool Testing and Research. Parts Six and Seven of the complete work. Part Six deals with the fundamental principles of machine tool automation, the various systems of numerical programmed control that have found extensive application in modern machine tool design in the USSR and other countries. Much space has been given to automatic transfer machines, including in-line rotary and other types, their layout, features, design procedures, structure and output. Current methods of testing and investigating the geometrical

kinematic dynamic and operational characteristics of machine tools are considered in Part Seven Methods of testing the quality characteristics of determining the corresponding criteria indices and of using contemporary apparatus for this purpose are dealt with

**Advances and Futuristic Trends in Machining Volume—II** B. Bhattacharyya, N. K. Jain, M. Vashista, M. Z. K. Yusufzai, 2025-10-02 This book presents select proceedings of the 9th International and 30th All India Manufacturing Technology Design and Research Conference AIMTDR 2023 It discusses the latest advances in hybrid manufacturing process and technology composites fabrication non traditional and advanced machining processes energy beam processing high performance cutting tools micro and nano machining of glasses and ceramics concurrent and reverse engineering modeling of machining processes intelligent machining and super finishing technologies among other areas The contents of this book are useful for researchers and professionals in the various fields of mechanical engineering

**Freedom in Machinery: Volume 2, Screw Theory Exemplified** Jack Phillips, 1984 Does a machine run well by virtue of its accuracies or its freedoms This work presents an exciting diagrammatic display of the hidden geometry of freedom and constraint It bolsters the imaginative design of robots but applies across all fields of machinery The figures and their captions comprise alone a self standing story and this connects effectively with the rigorously argued text The seamless combination of the two volumes 1984 1990 renders the internal cross referencing forward and backward within the volumes easier to look up The appearance of this paperback is a clear testament to the work s ongoing readership The term screw theory occurs throughout This relates after Ball to the book s philosophy and one might equally mention kinetostatics after Federhofer An all pervading counter intuitive fact accordingly presents itself while analogously angular velocity relates to force linear velocity relates to couple A direct consequence of Freedom in Machinery is a more recent book by the same author Specifically titled General Spatial Involute Gearing and published in Germany 2003 it exemplifies the many ways in which Freedom in Machinery clarifies the enigmatic field of spatial mechanism That field continuously expands with the current continuous thrust of ordinary engineering practice

*Manufacturing Technology - II* Dr. R. Kesavan, B. Vijaya

Ramanath, 2006

**Analysis of Material Removal Processes** Warren R. DeVries, 2012-12-06 Metal removal processes cutting and grinding in this book are an integral part of a large number of manufacturing systems either as the primary manufacturing process or as an important part of preparing the tooling for other manufacturing processes In recent years industry and educational institutions have concentrated on the metal removal system perhaps at the expense of the process This book concentrates on metal removal processes particularly on the modeling aspects that can either give a direct answer or suggest the general requirements as to how to control improve or change a metal removal process This modeling knowledge is more important with automated computer controlled systems than it has ever been before because quantitative knowledge is needed to design and operate these systems This senior undergraduate graduate textbook is aimed at providing the quantitative knowledge often times at an elementary level for handling the technological aspects of setting up and

operating a metal removal process and interpreting the experience of planning operating and improving a metal removal process based on rule of thumb approaches     **Cassier's Engineering Monthly** ,1918     Applied Mechanics Reviews ,1970     FOOD MACHINERY CL Ling-Min Cheng,1992 Beating and mixing machines Mixers Chinese sanack making machines Steamed bun manufacture Dumpling manufacture Hun tun manufacture Bread making machines Dividers Rounders Biscuits making machines reciprocating cutters Rotary cutters Cookie making machines Rotary moulders Extruder and depositor Cake making machines Encrusting machines Baking ovens construction and design of tunnel electric ovens Candy making machines Batch former and rope sizer Candy maker Food machinery design     **Cassier's Industrial Management and Mechanical Handling** ,1919     Engineering Journal ,1929     **Plant Engineering's Fluid Power Handbook, Volume 2** Anton H. Hehn,1993-06-09 Volume 2 focuses on the design and application aspects of hydraulic and pneumatic systems     *Technical Abstract Bulletin* ,1967     Proceedings ,1906     *Proceedings of the American Society of Civil Engineers* American Society of Civil Engineers,1908 Vols for Jan 1896 Sept 1930 contain a separately page section of Papers and discussions which are published later in revised form in the society s Transactions Beginning Oct 1930 the Proceedings are limited to technical papers and discussions while Civil engineering contains items relating to society activities etc     *Machinery* ,1917     **The Engineering Index** ,1924 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world s most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly     *The Gillette Blade* ,1919     **Engineering Production** ,1923     **Resources in Education** ,1997-04

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