

# Free read Mechanical engineering machines [PDF]

Theory of Machines and Mechanisms The Theory of Machines The Theory Of Machines Through Solved Problems Machine Tools Production Systems 3 Mechanical Design of Machine Components The Theory of Machines A Manual of the Mechanics of Engineering and of the Construction of Machines Theory of Machines, 3/e A Manual of the Mechanics of Engineering and of the Construction of Machines Machines that Made History Theory of Machines and Mechanisms Modular Design for Machine Tools Machinery and Production Engineering Dynamics and Control of Machines Engineering The Magnificent Machines of Milwaukee and the Engineers who Created Them Design of Automatic Machinery Machines that Made History Machining Processes and Machines Design of Machinery Introduction to Kinematics and Dynamics of Machinery Manufacturing Technologies for Machines of the Future Electrical Machines Machining and Machine-tools Electromechanical Systems, Electric Machines, and Applied Mechatronics Theory of Machines Machine Elements Mechanics of Machinery Mechanical Engineering and Machine Shop Practice (Classic Reprint) Electrical Machines Coordinate Measuring Machines and Systems Electric Machines Fundamentals of Mechanisms and Machines Engineering History of Machines for Heritage and Engineering Development ELECTRICAL MACHINES Distinguished Figures in Mechanism and Machine Science Soft Machines Mechanical Design of Machine Elements and Machines Electromagnetic Linear Machines with Dual Halbach Array

*Theory of Machines and Mechanisms* 2023-07-31 thoroughly updated sixth edition of this uniquely comprehensive and precise introduction to the kinematics and dynamics of machines

The Theory of Machines 1967 the theory of machines or mechanism and machine theory is a basic subject taught in engineering schools to mechanical engineering students this subject lays the foundation on which mechanical engineering design and practice rests with it is also a subject taught when the students have just entered engineering discipline and are yet to formulate basics of mechanical engineering this subject needs a lot of practice in solving engineering problems and there is currently no good book explaining the subject through solved problems this book is written to fill such a void and help the students preparing for examinations it contains in all 336 solved problems several illustrations and 138 additional problems for practice basic theory and background is presented though it is not like a full fledged text book in that sense this book contains 20 chapters the first one giving a historical background on the subject the second chapter deals with planar mechanisms explaining basic concepts of machines kinematic analysis is given in chapter 3 with graphical as well as analytical tools the synthesis of mechanisms is given in chapter 4 additional mechanisms and coupler curve theory is presented in chapter 5 chapter 6 discusses various kinds of cams their analysis and design spur gears helical gears worm gears and bevel gears and gear trains are extensively dealt with in chapters 7 to 9 hydrodynamic thrust and journal bearings long and short bearings are considered in chapter 10 static forces inertia forces and a combined force analysis of machines is considered in chapters 11 to 13 the turning moment and flywheel design is given in chapter 14 chapters 15 and 16 deal with balancing of rotating parts reciprocating parts and four bar linkages force analysis of gears and cams is dealt with in chapter 17 chapter 18 is concerned with mechanisms used in control viz governors and gyroscopes chapters 19 and 20 introduce basic concepts of machine vibrations and critical speeds of machinery a special feature of this book is the availability of three computer aided learning packages for planar mechanisms their analysis and animation for analysis of cams with different followers and dynamics of reciprocating machines balancing and flywheel analysis

The Theory Of Machines Through Solved Problems 2007 the first part of this third volume focuses on the design of mechatronic components in particular the feed drives of machine tools used to generate highly dynamic drive movements engineering guides for the selection and design of important machine components the control technology of feed drives and the measuring systems required for position capture are presented another focus is on process and diagnostic equipment for manufacturing machines and systems the second part describes control concepts including programming methods for various applications of modern production systems programmable logic controllers plc numerical controllers nc and robot controllers rc are part of these presentations in the context of automated manufacturing systems the various levels of the automation pyramid and the importance of control systems are also outlined finally the volume deals with the engineering of machines and plants the german machine tools and production

systems compendium has been completely revised the previous five volume series has been condensed into three volumes in the new ninth edition with colored technical illustrations throughout this first english edition is a translation of the german ninth edition

**Machine Tools Production Systems 3** 2021-12-13 analyze and solve real world machine design problems using si units mechanical design of machine components second edition si version strikes a balance between method and theory and fills a void in the world of design relevant to mechanical and related engineering curricula the book is useful in college classes and also serves as a reference for practicing engineers this book combines the needed engineering mechanics concepts analysis of various machine elements design procedures and the application of numerical and computational tools it demonstrates the means by which loads are resisted in mechanical components solves all examples and problems within the book using si units and helps readers gain valuable insight into the mechanics and design methods of machine components the author presents structured worked examples and problem sets that showcase analysis and design techniques includes case studies that present different aspects of the same design or analysis problem and links together a variety of topics in successive chapters si units are used exclusively in examples and problems while some selected tables also show u s customary uscs units this book also presumes knowledge of the mechanics of materials and material properties new in the second edition presents a study of two entire real life machines includes finite element analysis coverage supported by examples and case studies provides matlab solutions of many problem samples and case studies included on the book s website offers access to additional information on selected topics that includes website addresses and open ended web based problems class tested and divided into three sections this comprehensive book first focuses on the fundamentals and covers the basics of loading stress strain materials deflection stiffness and stability this includes basic concepts in design and analysis as well as definitions related to properties of engineering materials also discussed are detailed equilibrium and energy methods of analysis for determining stresses and deformations in variously loaded members the second section deals with fracture mechanics failure criteria fatigue phenomena and surface damage of components the final section is dedicated to machine component design briefly covering entire machines the fundamentals are applied to specific elements such as shafts bearings gears belts chains clutches brakes and springs

Mechanical Design of Machine Components 2018-09-03 sponsored by the asme history heritage committee with full color and black white images this hardcover photographic book highlights 100 key landmarks in the history of mechanical engineering devices or innovations that have shaped the world the products of mechanical engineering sustain the very fabric of modern life some are obvious like the automobile some hide behind casings like the disk drives of computers sometimes they are large and visible like the rockets that took astronauts to the moon sometimes they are all but invisible to the general public like the pumps that provide water to our cities or the turbines that generate our electric power this volume provides brief introductions to 100 key landmarks in the history of mechanical engineering devices

or innovations that have shaped the field and broadly influenced modern civilization from the foreword

**The Theory of Machines** 1939 there has been tremendous growth in the area of kinematics and dynamics of machinery in the past 20 years much of which exists in a large variety of technical papers each requiring its own background for comprehension these new developments can be integrated into the existing body of knowledge so as to provide a logical modern and comprehensive treatise such is the purpose of this book this book offers outstanding coverage of mechanisms and machines including important information on how to classify and analyze their motions how to synthesize or design them and how to determine their performance when operated as real machines to develop a broad comprehension all the methods of analysis and development common to the literature of the field are used part i of the book begins with an introduction which deals mostly with theory nomenclature notation and methods of analysis serving as an introduction chapter 1 also tells what a mechanism is what it can do how it can be classified and what its limitations are chapters 2 3 and 4 deal with analysis all the various methods of analyzing the motions of mechanisms part ii goes into the engineering problems involving the selection specification design and sizing of mechanisms to accomplish specific motion objectives part iii covers the consequences of the proposed mechanism design in other words having designed a machine by selecting specifying and sizing the various mechanisms which make up the machine we tackle such questions as what happens during the operation of the machine what forces are produced are there any unexpected operating results will the proposed design be satisfactory in all respects

**A Manual of the Mechanics of Engineering and of the Construction of Machines** 1878 harness the latest modular design methods to increase productivity save time and reduce costs in manufacturing machine designers and toolmakers can turn to modular design for machine tools for a complete guide to designing and building machines using modular design methods the information and techniques presented in this skills building book will enable readers to shorten machine design time improve reliability reduce costs and simplify service and repair packed with over 100 detailed illustrations this essential resource explores the basics of modular design the methodology of machine tools the description and application of machine tools interfacial structural configuration in modular design stationary and sliding joints model theory and testing and much more comprehensive and easy to use modular design for machine tools includes expert classification of machine tool joints concise definitions of machine tool joints and characteristics similarity evaluations of structural configurations design formulas and features of single flat joints under dynamic loading solved examples that illustrate and prove formulas hard to find graphs for gear design comparative tables for machine tool drives and simplified electrical circuit designs inside this cutting edge modular design guide part 1 engineering guide to modular design and description methodology of machine tools what is modular design engineering guide to and future perspectives on modular design description of machine tools application of machine tools to engineering design part 2 engineering design for machine tool joints interfacial structural

configuration in modular design machine tool joints engineering design fundamentals practice and first hand views of related engineering developments stationary joints and sliding joints engineering knowledge of other joints measurement of interface pressure by means of ultrasonic waves model theory and testing

**Theory of Machines, 3/e** 2010 basic models and concepts of machine dynamics and motion control are presented in the order of the principal steps of machine design the machine is treated as a coupled dynamical system including drive mechanisms and controller to reveal its behavior at different regimes through the interaction of its units under dynamic and processing loads the main dynamic effects in machines are explained the influence of component compliances on accuracy stability and efficiency of the machines is analyzed methods for decreasing internal and external vibration activity of machines are described the dynamic features of digital control are considered special attention is given to machines with intense dynamic behavior resonant and hand held percussion ones targeted to engineers as well as to lecturers and advanced students

**A Manual of the Mechanics of Engineering and of the Construction of Machines** 1886 the riveting world of buildings and machines how does a 3d printer work what stops a skyscraper from falling over where does a smart phone store information welcome to the world of engineering in engineering machines and buildings discover how the familiar machines and buildings in today s world are constructed and how they function how do scientists choose the right materials for the right job which scientific principles lie behind each machine or structure perfect for home and school basher s highly original books explain difficult scientific concepts in ingenious ways making them tangible understandable and even lovable chatty first person text and stylish contemporary character illustrations give a voice personality and story to each topic it s a truly brilliant way to communicate science discover and learn more with the basher science series including chemistry biology and the periodic table

*Machines that Made History* 2014 the magnificent machines of milwaukee tells the story of innovation and enterprise creation in milwaukee during the century of progress the hundred years starting after the conclusion of the us civil war it was a remarkable era milwaukee was one of the principal centers of industrial innovation in the united states and became known as the machine shop of the world as the name of the book implies the book features the incredible machines built in the milwaukee area during this period in the process it highlights the engineers who created these machines and summarizes the history of the numerous companies that helped the greater milwaukee area achieve prominence in industrial design and manufacturing in telling the story of milwaukee s industrial history the book discusses over one hundred engineering accomplishments summarizes individual stories of over seventy early milwaukee companies provides the biographies of dozens of engineering innovators and discusses the significance of their engineering achievements richly illustrated the book contains hundreds of photographs and drawings to help tell the story of industrial milwaukee the stories of industrial milwaukee are not just of historical curiosity the engineering innovation that occurred during this period

resulted in commerce that was essential to the development of the city and to the livelihood of thousands of its citizens many of these companies survive and several have grown to become major international firms their stories reveal important characteristics that may help to point the way toward enhanced innovation and commerce in the future as noted by john gurda milwaukee writer and historian until the magnificent machines of milwaukee the stories of these innovations and the men behind them had been told largely in fragmentary fashion an article here a scholarly reference there tom fehring has assembled the entire cast of characters in a single book that is a testament to talent an ode to ingenuity and a singular contribution to the history of american industry

**Theory of Machines and Mechanisms** 1980 examining options for the practical design of an automated process this reference provides a vast amount of knowledge to design a new automatic machine or write specifications for a machine to perform an automated process focusing on the many existing automation concepts used in recent history and showcasing the automation experiences and recommen

Modular Design for Machine Tools 2008-02-10 with full color and black white images this hardcover photographic book highlights 100 key landmarks in the history of mechanical engineering devices or innovations that have shaped the world the products of mechanical engineering sustain the very fabric of modern life some are obvious like the automobile some hide behind casings like the disk drives of computers sometimes they are large and visible like the rockets that took astronauts to the moon sometimes they are all but invisible to the general public like the pumps that provide water to our cities or the turbines that generate our electric power this volume provides brief introductions to 100 key landmarks in the history of mechanical engineering devices or innovations that have shaped the field and broadly influenced modern civilization

*Machinery and Production Engineering* 1974 machining is one of the eight basic manufacturing processes this textbook covers the fundamentals and engineering analysis of both conventional and advanced non traditional material removal processes along with gear cutting manufacturing and computer numerically controlled cnc machining the text provides a holistic understanding of machining processes and machines in manufacturing it enables critical thinking through mathematical modeling and problem solving and offers 200 worked examples calculations and 70 multiple choice questions on machining operations as well as on cnc machining with the ebook version offered in color this unique book is equally useful to both engineering degree students and production engineers practicing in the manufacturing industry

Dynamics and Control of Machines 2000-03-13 introduction to kinematics and dynamics of machinery is presented in lecture notes format and is suitable for a single semester three credit hour course taken by juniors in an undergraduate degree program majoring in mechanical engineering it is based on the lecture notes for a required course with a similar title given to junior and occasionally senior undergraduate students by the author in the department of mechanical engineering at the university of calgary from 1981 and since 1996 at the university of nebraska

lincoln the emphasis is on fundamental concepts theory analysis and design of mechanisms with applications while it is aimed at junior undergraduates majoring in mechanical engineering it is suitable for junior undergraduates in biological system engineering aerospace engineering construction management and architectural engineering

Engineering 2017-01-12 this work provides a visionary survey on modern and future technologies and management methods in engineering design and manufacturing *The Magnificent Machines of Milwaukee and the Engineers who Created Them* 2017 electrical machines primarily covers the basic functionality and the role of electrical machines in their typical applications the effort of applying coordinate transforms is justified by obtaining a more intuitive concise and easy to use model in this textbook mathematics is reduced to a necessary minimum and priority is given to bringing up the system view and explaining the use and external characteristics of machines on their electrical and mechanical ports covering the most relevant concepts relating to machine size torque and power the author explains the losses and secondary effects outlining cases and conditions in which some secondary phenomena are neglected while the goal of developing and using machine mathematical models equivalent circuits and mechanical characteristics persists through the book the focus is kept on physical insight of electromechanical conversion process details such as the slot shape and the disposition of permanent magnets and their effects on the machine parameters and performance are also covered

*Design of Automatic Machinery* 2004-10-27 this book is the third in the woodhead publishing reviews mechanical engineering series and includes high quality articles full research articles review articles and case studies with a special emphasis on research and development in machining and machine tools machining and machine tools is an important subject with application in several industries parts manufactured by other processes often require further operations before the product is ready for application traditional machining is the broad term used to describe removal of material from a work piece and covers chip formation operations including turning milling drilling and grinding recently the industrial utilization of non traditional machining processes such as edm electrical discharge machining lbm laser beam machining awjm abrasive water jet machining and usm ultrasonic machining has increased the performance characteristics of machine tools and the significant development of existing and new processes and machines are considered nowadays in europe usa japan and countries with emerging economies machine tools is a sector with great technological evolution includes high quality articles full research articles review articles and cases studies with a special emphasis on research and development in machining and machine tools considers the performance characteristics of machine tools and the significant development of existing and new processes and machines contains subject matter which is significant for many important centres of research and universities worldwide

Machines that Made History 2014 recent trends in engineering show increased emphasis on integrated analysis design and control of advanced electromechanical systems and their scope continues to expand mechatronics a breakthrough concept

has evolved to attack integrate and solve a variety of emerging problems in engineering and there appears to be no end to its application it has become essential for all engineers to understand its basic theoretical standpoints and practical applications electromechanical systems electric machines and applied mechatronics presents a unique combination of traditional engineering topics and the latest technologies integrated to stimulate new advances in the analysis and design of state of the art electromechanical systems with a focus on numerical and analytical methods the author develops the rigorous theory of electromechanical systems and helps build problem solving skills he also stresses simulation as a critical aspect of developing and prototyping advanced systems he uses the matlab environment for his examples and includes a matlab diskette with the book thus providing a solid introduction to this standard engineering tool readable interesting and accessible electromechanical systems electric machines and applied mechatronics develops a thorough understanding of the integrated perspectives in the design and analysis of electromechanical systems it covers the basic concepts in mechatronics and with numerous worked examples prepares the reader to use the results in engineering practice readers who master this book will know what they are doing why they are doing it and how to do it

Machining Processes and Machines 2020-12-14 while writing the book we have continuously kept in mind the examination requirements of the students preparing for u p s c engg services and a m i e i examinations in order to make this volume more useful for them complete solutions of their examination papers up to 1975 have also been included every care has been taken to make this treatise as self explanatory as possible the subject matter has been amply illustrated by incorporating a good number of solved unsolved and well graded examples of almost every variety *Design of Machinery* 1992 focusing on how a machine feels and behaves while operating machine elements life and design seeks to impart both intellectual and emotional comprehension regarding the life of a machine it presents a detailed description of how machines elements function seeking to form a sympathetic attitude toward the machine and to ensure its wellbeing

*Introduction to Kinematics and Dynamics of Machinery* 2017-12-06 mechanics of machinery describes the analysis of machines covering both the graphical and analytical methods for examining the kinematics and dynamics of mechanisms with low and high pairs this text developed and updated from a version published in 1973 includes analytical analysis for all topics discussed allowing for the use of math software

*Manufacturing Technologies for Machines of the Future* 2003 excerpt from mechanical engineering and machine shop practice the author has made no attempt to exhaust the knowledge of engineering in its relation to machine shops or indeed of any one process nor to take up in detail the process product and each feature of every tool but purposes to present the material of mechanical engineering in its relation to shop practice in such a manner as to obtain a maximum amount of definite knowledge and mental discipline with a minimum of words about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at



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*Electrical Machines* 2014-11-09 electrical machines and drives play a vital role in industry with an ever increasing importance this fact necessitates the understanding of machine and drive principles by engineers of many different disciplines therefore this book is intended to give a comprehensive deduction of these principles special attention is given to the precise mathematical deduction of the necessary formulae to calculate machines and drives and to the discussion of simplifications if applied with the associated limits so the book shows how the different machine topologies can be deduced from general fundamentals and how they are linked this book addresses graduate students researchers and developers of electrical machines and drives who are interested in getting knowledge about the principles of machine and drive operation and in detecting the mathematical and engineering specialties of the different machine and drive topologies together with their mutual links the detailed but compact mathematical deduction together with a distinct emphasis onto assumptions simplifications and the associated limits leads to a clear understanding of electrical machine and drive topologies and characteristics

*Machining and Machine-tools* 2013-05-10 since john bosch edited and published the first version of this book in 1995 the world of manufacturing and coordinate measuring machines cmms and coordinate measuring systems cmss has changed considerably however the basic physics of the machines has not changed in essence but have become more deeply understood completely revised and updated

**Electromechanical Systems, Electric Machines, and Applied Mechatronics** 2018-02-06 with countless electric motors being used in daily life in everything from transportation and medical treatment to military operation and communication unexpected failures can lead to the loss of valuable human life or a costly standstill in industry to prevent this it is important to precisely detect or continuously monitor the working condition of a motor electric machines modeling condition monitoring and fault diagnosis reviews diagnosis technologies and provides an application guide for readers who want to research develop and implement a more effective fault diagnosis and condition monitoring scheme thus improving safety and reliability in electric motor operation it also supplies a solid foundation in the fundamentals of fault cause and effect combines theoretical analysis and practical application written by experts in electrical engineering the book approaches the fault diagnosis of electrical motors through the process of theoretical analysis and practical application it begins by explaining how to analyze the fundamentals of machine failure using the winding functions method the magnetic equivalent circuit method and finite element analysis it then examines how to implement fault diagnosis using techniques such as the motor current signature analysis mcsa method frequency domain method model

based techniques and a pattern recognition scheme emphasizing the mcsa implementation method the authors discuss robust signal processing techniques and the implementation of reference frame theory based fault diagnosis for hybrid vehicles fault modeling diagnosis and implementation in one volume based on years of research and development at the electrical machines power electronics empe laboratory at texas a m university this book describes practical analysis and implementation strategies that readers can use in their work it brings together in one volume the fundamentals of motor fault conditions advanced fault modeling theory fault diagnosis techniques and low cost dsp based fault diagnosis implementation strategies

**Theory of Machines** 2005 this book is all about mechanisms and machines one of the most important core subjects of mechanical engineering there are many ways a mechanism can be configured and there are many mechanisms in a machine creating a tremendous opportunity to build better machines of our choice to do so however one needs to understand the common thread present in the thousands of configurations and to break them down into a set of rules this book does exactly that using the same set of rules consistently to explain the design of any mechanism or machine pedagogical tools and approaches have been utilized to make it easier and more interesting for the student extensive illustrations simple explanations and exercise problems with useful hints have been included the systematic use of a vector based approach makes learning easier and helps extend the knowledge acquired in this book to applications in robotics

*Machine Elements* 2007-09-14 crammed with mega machines breathtaking buildings and all the technology in between this book has the real insider view on engineering

*Mechanics of Machinery* 2012-11-07 this selection of papers illustrates progress and development in science and technology from the point of view of our collective cultural heritage from the renaissance onwards its contributions by leading world experts reflect a stimulating collaboration

**Mechanical Engineering and Machine Shop Practice (Classic Reprint)**

2017-06-02 this book covers a brief history of electricity fundamentals of electrostatic and electromagnetic fields torque generation magnetic circuits and detailed performance analysis of transformers and rotating machines it also discusses the concept of generalised machine which can emulate the dynamic and steady state performance of dc and ac machines to serve the specific applications of drive systems in industries many new types of motors are developed in the last few decades a separate chapter on special machines is included in this book so that the students should be made aware of these new developments the book covers the syllabi of many universities in india for a course in electrical machines therefore this book would serve the needs of the undergraduate students of electrical engineering

**Electrical Machines** 2014-11-14 this is the second volume of a series of edited books whose aim is to collect c tributed papers within a framework that can serve as a collection of persons in mms mechanism and machine science this is a continuation of the first volume that was published in 2008 again combining very ancient and very recent scholars in order to give not only an encyclopaedic character to this project

but also to emphasize the significance of mms over time this project has the characteristic that the papers illustrate by recognizing persons and their scientific work mainly technical developments in the historical evolution of the fields that today are grouped in mms thus emphasis is also given to biographical notes describing efforts and experiences of people who have contributed to the technical achievements whose technical survey is the core of each contributed paper this second volume of the project has been possible thanks to the invited authors who have enthusiastically shared in this initiative and who have spent time and effort in preparing the papers the stand alone papers cover the wide field of the history of mechanical engineering with specific focus on mms i believe that readers will take advantage of the papers in this book and future ones by supplying further satisfaction and motivation for her or his work historical or not

**Coordinate Measuring Machines and Systems** 2016-04-19 enthusiasts look forward to a time when tiny machines reassemble matter and process information with unparalleled power and precision but is their vision realistic where is the science heading as nanotechnology a new technology that many believe will transform society in the next one hundred years rises higher in the news agenda and popular consciousness there is a real need for a book which discusses clearly the science on which this technology will be based whilst it is most easy to simply imagine these tiny machines as scaled down versions of the macroscopic machines we are all familiar with the way things behave on small scales is quite different to the way they behave on large scales engineering on the nanoscale will use very different principles to those we are used to in our everyday lives and the materials used in nanotechnology will be soft and mutable rather than hard and unyielding soft machines explains in a lively and very accessible manner why the nanoworld is so different to the macro world which we are all familiar with why does nature engineer things in the way it does and how can we learn to use these unfamiliar principles to create valuable new materials and artefacts which will have a profound effect on medicine electronics energy and the environment in the twenty first century with a firmer understanding of the likely relationship between nanotechnology and nature itself we can gain a much clearer notion of what dangers this powerful technology may potentially pose as well as come to realise that nanotechnology will have more in common with biology than with conventional engineering

**Electric Machines** 2017-12-19 this is a new machine design book with a failure prevention perspective that offers balance between analysis and design coverage includes design of machine elements as well as integration of components into sub assemblies and whole machines each chapter in part ii design applications includes discussion of uses and characteristics probable failure modes and typical materials used

**Fundamentals of Mechanisms and Machines** 2024-06-10 this book extends the conventional two dimensional 2d magnet arrangement into 3d pattern for permanent magnet linear machines for the first time and proposes a novel dual halbach array it can not only effectively increase the radial component of magnetic flux density and output force of tubular linear machines but also significantly reduce the axial flux

density radial force and thus system vibrations and noises the book is also the first to address the fundamentals and provide a summary of conventional arrays as well as novel concepts for pm pole design in electric linear machines it covers theoretical study numerical simulation design optimization and experimental works systematically the design concept and analytical approaches can be implemented to other linear and rotary machines with similar structures the book will be of interest to academics researchers r d engineers and graduate students in electronic engineering and mechanical engineering who wish to learn the core principles methods and applications of linear and rotary machines

*Engineering* 2017

*History of Machines for Heritage and Engineering Development* 2011-06-06

*ELECTRICAL MACHINES* 2017-11-01

**Distinguished Figures in Mechanism and Machine Science** 2009-12-01

*Soft Machines* 2004-08-26

Mechanical Design of Machine Elements and Machines 2003

Electromagnetic Linear Machines with Dual Halbach Array 2016-09-15

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