

Rack And Pinion Design Guide

Dudley's Handbook of Practical Gear Design and Manufacture, Second Edition *Amateur Telescope Making in the Internet Age* [Standard Gear Book](#) *Gears* **Dudley's Handbook of Practical Gear Design and Manufacture, Second Edition** *Tribological Design of Machine Elements* **Dudley's Handbook of Practical Gear Design and Manufacture** *Gear Geometry and Applied Theory* *Design of One-Stage Overhang Pinion Engagement System for Cv Starter* *Gear Design Simplified* *Handbook of Practical Gear Design* *Handbook of Gear Design* **Gear Drive Systems** *Advances in Gear Theory and Gear Cutting Tool Design* **Gear Design Simplified** **THE PRACTICAL DRAUGHTSMAN'S: BOOK OF INDUSTRIAL DESIGN** *Manual of Gear Design* *Advances in Gear Design and Manufacture* *Modern Diesel Technology: Heavy Equipment Systems* *Technical Drawing for Engineering Communication* **Movable Bridge Engineering** **Engineering Design 3 Checkbook** **NASA Reference Publication** *Stability & Control, Aerodynamic Design, and Structures, Loads & Vibrations* **Popular Science** *Theory of Gearing* **Engineering Design Methods** *Gears* **The Practical Draughtsman's Book of Industrial Design, and Machinist's and Engineer's Drawing Companion: Forming a Complete Course of Mechanical, Engineering, and Architectural Drawing** **A Text Book of Machine Design** **The practical draughtsman's book of industrial design, tr. from the [Nouveau cours raisonné de dessin industriel] of m. Armengaud, ainé, and mm. Armengaud, jeune, and Amouroux. Rewritten and arranged, with additional matter** *Direct Gear Design* **Conceptual Design for Engineers** **Official Gazette of the United States Patent Office** *Injection Mould Design (for Thermoplastics)* **Recent Advances in Mechanical Engineering Chassis Handbook** *A Rational Procedure for the Preliminary Design of Minimum Volume Gears* **New Approaches to Gear Design and Production** *Instrument Engineers' Handbook, Volume Two*

Eventually, you will no question discover a extra experience and completion by spending more cash. yet when? get you take on that you require to get those all needs in imitation of having significantly cash? Why dont you attempt to acquire something basic in the beginning? Thats something that will guide you to understand even more on the globe, experience, some places, next history, amusement, and a lot more?

It is your unconditionally own get older to be active reviewing habit. among guides you could enjoy now is **Rack And Pinion Design Guide** below.

New Approaches to Gear Design and Production Jul 31 2019 This is the third book in a series devoted to gear design and production. Comprising papers by scientists and gear experts from around the globe, it covers recent developments in practically all spheres of mechanical engineering related to gears and transmissions. It describes advanced approaches to research, design, testing and production of various kinds of gears for a vast range of applications, with a particular focuses on advanced computer-aided approaches for gear analysis, simulation and design, the application of new materials and tribological issues.

Advances in Gear Theory and Gear Cutting Tool Design Sep 24 2021 This book was written by a team of leading gear experts from across the globe, including contributions from USA, Germany, Poland, China, Russia, Ukraine, and Belarus. It provides readers with the latest accomplishments in the gear theory and gear cutting tool design. Specialists can apply competencies gained from this book to quality control in gear manufacture, as well as to the conditions of their production. The book begins with a detailed discussion of the kinematics and geometry of geometrically-accurate gears and gear systems. This is followed by an analysis of state-of-the-art gear manufacturing methods with focus on gear finishing operations. Novel designs of gear transmission systems as well as gear theory and gear cutting tool design are also covered.

NASA Reference Publication Dec 16 2020

A Rational Procedure for the Preliminary Design of Minimum Volume Gears Aug 31 2019 A simple, closed-form procedure is presented as a first step in the design of minimum volume spur and helical gearsets. The procedure includes methods for selecting geometry and dimensions, considering maximum pitting resistance, bending strength, and scuffing resistance. It also includes methods for selecting profile shift.

The practical draughtsman's book of industrial design, tr. from the [Nouveau cours raisonné de dessin industriel] of m. Armengaud, ainé, and mm. Armengaud, jeune, and Amouroux. Rewritten and arranged, with additional matter Apr 07 2020

Dudley's Handbook of Practical Gear Design and Manufacture May 01 2022 The Fourth Edition of Dudley's Handbook of Practical Gear Design and Manufacture is the definitive reference guide to gear design, production, and applications. Using a pragmatic approach, the book provides gear manufacturing methods for high-, medium-, and low-volume production. Updated throughout to reflect cutting-edge research, this edition includes new contributions from experts in the field. Providing a clear overview of the foundations of advanced gear systems, the book contains new material on the potential of technologies such as high-performance plastic gears alongside issues that can be encountered. The book also includes innovative chapters discussing topics such as involute gear drives and gear strength calculation, with new regulations such as ISO 6336 in mind. Using modern technologies such as powder metallurgy and additive manufacturing, all the necessary information to reduce gear cost is provided. Additionally, gear micro-geometry modifications and planetary gear designs are discussed. **FEATURES** Provides an up-to-date, single-source reference for all aspects of the gear industry Presents an integrated approach to gear design and manufacture Includes new coverage of direct gear design and ready-to-use gear design Contains coverage of finite element analysis, gear vibration, load ratings, and gear failures The book includes comprehensive tables and references, making this the definitive guide for all those in the field of gear technology, from industry professionals to undergraduate and postgraduate engineering students.

Handbook of Practical Gear Design Dec 28 2021 For more than 30 years the book Practical Gear Design, later re-titled Handbook of Practical Gear Design, has been the leading engineering guide and reference on the subject. It is now available again in its most recent edition. The book is a detailed, practical guide and reference to gear technology. The design of all types of gears is covered, from those for small mechanisms to large industrial applications. The presentation is designed for easy reference for those involved in practical gear design, manufacture, applications and problem solving. The text is well illustrated with clear diagrams and photographs. The many tables provide needed reference data in convenient form.

THE PRACTICAL DRAUGHTSMAN'S: BOOK OF INDUSTRIAL DESIGN Jul 23 2021

Handbook of Gear Design Nov 26 2021

Conceptual Design for Engineers Feb 04 2020 Although first published nearly thirty years ago, this book remains up-to-date, intellectually stimulating and realistic. Unlike most texts in the field, it relates design closely to the science and mathematics that are students' chief concern, and shows their relevance. It shows how to make simple but illuminating calculations, and how to achieve the insight and the invention that often result from them. Covering design principles in depth, this is, and remains, an original book: although some of the ideas which were novel in 1971 are now widely accepted, others remain new.

Official Gazette of the United States Patent Office Jan 05 2020

Engineering Design Methods Aug 12 2020 A revised text that presents specific design methods within an overall strategy from concept to detail design The fifth edition of Engineering Design Methods is an improved and updated version of this very successful, classic text on engineering product design. It provides an overview of design activities and processes, detailed descriptions and examples of how to use key design methods, and outlines design project strategies and management techniques. Written by a noted expert on the topic, the new edition contains an enriched variety of examples and case studies, and up to date material on design thinking and the development of design expertise. This new edition opens with a compelling original case study of a revolutionary new city-car design by ex-Formula One designer Gordon Murray. The study illustrates the complete development of a novel design and brings to life the process of design, from concept through to prototype. The core of the book presents detailed instructions and examples for using design methods throughout the design process, ranging from identifying new product opportunities, through establishing functions and setting requirements, to generating, evaluating and improving alternative designs. This important book: Offers a revised and updated edition of an established, successful text on understanding the design process and using design methods Includes new material on design thinking and design ability and new examples of the use of design methods Presents clear, detailed and illustrated presentations of eight key design methods in engineering product design Written for undergraduates and postgraduates across all fields of engineering and product design, the fifth edition of Engineering Design Methods offers an updated, substantial, and reliable text on product design and innovation.

Amateur Telescope Making in the Internet Age Oct 06 2022 Building an astronomical telescope offers the amateur astronomer an exciting challenge, with the possibility of ending up with a far bigger and better telescope than could have been afforded otherwise. In the past, the starting point has always been the grinding and polishing of at least the primary mirror, a difficult and immensely time-consuming process. But now that the Internet has brought us together in a global village, purchasing off-the-shelf goods such as parabolic mirrors, eyepieces, lenses, and telescope tubes, is possible. There are also a vast number of used mirrors and lenses out there, and it is now possible to track them down almost anywhere in the world. Online stores and auction houses have facilitated commerce regarding all sorts of useful optical components at a reasonable price. This is a book about making telescopes from available parts. It provides guidance on where to look and what to look for in selecting items useful for telescope making and explains how to assemble these components to produce an excellent instrument on a tight budget. At one time, many amateurs made their own telescopes from home-made parts. In today's rushed world, that has almost become a lost art. The Internet offers a wonderful alternative to either buying a pricey scope fully assembled or making your own from scratch.

Modern Diesel Technology: Heavy Equipment Systems Apr 19 2021 Written by experienced technicians, MODERN DIESEL TECHNOLOGY: HEAVY EQUIPMENT SYSTEMS, 2nd Edition combines manufacturer-based and universal information into a single, reliable resource. The book's unique focus on off-highway mobile equipment systems delivers service and repair essentials for heavy equipment, agricultural equipment, and powered lift truck technology. Detailing everything from safety to best practices, chapter coverage addresses four key areas: hydraulics, heavy duty brakes, and drivetrains, as well as steering, suspension, and track systems. The 2nd Edition of MODERN DIESEL TECHNOLOGY: HEAVY EQUIPMENT SYSTEMS also includes the latest updates in computer-controlled hydraulics, GPS, electronic controls for other systems to help you master the ever-evolving responsibilities of specialty technicians. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Instrument Engineers' Handbook, Volume Two Jun 29 2019 The latest update to Bela Liptak's acclaimed "bible" of instrument engineering is now available. Retaining the format that made the previous editions bestsellers in their own right, the fourth edition of Process Control and Optimization continues the tradition of providing quick and easy access to highly practical information. The authors are practicing engineers, not theoretical people from academia, and their from-the-trenches advice has been repeatedly tested in real-life applications. Expanded coverage includes descriptions of overseas manufacturer's products and concepts, model-based optimization in control theory, new major inventions and innovations in control valves, and a full chapter devoted to safety. With more than 2000 graphs, figures, and tables, this all-inclusive encyclopedic volume replaces an entire library with one authoritative reference. The fourth edition brings the content of the previous editions completely up to date, incorporates the developments of the last decade, and broadens the horizons of the work from an American to a global perspective. Béla G. Lipták speaks on Post-Oil Energy Technology on the AT&T Tech Channel.

Tribological Design of Machine Elements Jun 02 2022 On previous occasions each Symposium has focused attention on a current and significant research topic, usually reflecting the interests of the Leeds or Lyon research groups, however this time the main focus was on the vitally important subject of technology transfer, providing the 154 delegates from 21 countries with the rare opportunity to discuss the impact of their studies on machine design.

Manual of Gear Design Jun 21 2021 This effective manual conveniently gathers together the necessary information required for solving a majority of gear problems.

Popular Science Oct 14 2020 Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Theory of Gearing Sep 12 2020 Written by a leading expert, Theory of Gearing: Kinematics, Geometry, and Synthesis, Second Edition is intended for engineers and researchers in the field of gear design, gear production, gear inspection, and application of gears. It focuses on the scientific theory of gearing, in all its aspects, and its application to new gear types and designs.

Gear Drive Systems Oct 26 2021 This outstanding reference provides the complete range of practical and theoretical information - with over 250 detailed illustrations, figures and tables - needed to design, manufacture and operate reliable, efficient gear drive systems, emphasizing parallel shaft and planetary units with spur and helical gearing.

Movable Bridge Engineering Feb 15 2021 This new reference work addresses both the maintenance and the upkeep of existing movable bridges, as well as the complete design of new movable bridges. Comprehensive coverage is provided on engineering design and actual construction technology used in building all major types of bridges, including all structural issues and relevant mechanical and electrical systems used to make such bridges functional. Includes coverage of vertical lift, swing, and bascule bridges for both highway and railway usage Offers valuable guidance on operation, maintenance, inspection, and rehabilitation of moveable bridges

Gear Design Simplified Aug 24 2021

Gear Geometry and Applied Theory Mar 31 2022 This revised, expanded, edition covers the theory, design, geometry and manufacture of all types of gears and gear drives. This is an invaluable reference for designers, theoreticians, students, and manufacturers. This edition includes advances in gear theory, gear manufacturing, and computer simulation. Among the new topics are: 1. New geometry for modified spur and helical gears, face-gear drives, and cycloidal pumps. 2. New design approaches for one stage planetary gear trains and spiral bevel gear drives. 3. An enhanced approach for stress analysis of gear drives with FEM. 4. New methods of grinding face gear drives, generating double crowned pinions, and improved helical gear shaving. 5. Broad application of simulation of meshing and TCA. 6. New theories on the simulation of meshing for multi-body systems, detection of cases wherein the contact line on generating surfaces may have its own envelope, and detection and avoidance of singularities of generated surfaces.

Advances in Gear Design and Manufacture May 21 2021 Advances in Gear Design and Manufacture deals with gears, gear transmissions, and advanced methods of gear production. The book is focused on discussion of the latest discoveries and accomplishments in gear design and production, with chapters written by international experts in the field. Topics are aligned to meet the requirements of the modern scientific theory of gearing, providing readers precise knowledge and recommendations on how perfect gears and gear transmissions can be designed and produced, and how they work. It explains how gears and gear transmissions can be designed to reach high a "power-to-weight" ratio, and how to design and produce compact, high-capacity gearboxes.

Gears Jul 11 2020 This book explores the geometric and kinematic design of the various types of gears most commonly used in practical applications, also considering the problems concerning their cutting processes. The cylindrical spur and helical gears are first considered, determining their main geometric quantities in the light of interference and undercut problems, as well as the related kinematic parameters. Particular attention is paid to the profile shift of these types of gears either generated by rack-type cutter or by pinion-rack cutter. Among other things, profile-shifted toothing allows to obtain teeth shapes capable of greater strength and more balanced specific sliding, as well as to reduce the number of teeth below the minimum one to avoid the operating interference or undercut. These very important aspects of geometric-kinematic design of cylindrical spur and helical gears are then generalized and extended to the other examined types of gears most commonly used in practical applications, such as straight bevel gears; crossed helical gears; worm gears; spiral bevel and hypoid gears. Finally, ordinary gear trains, planetary gear trains and face gear drives are discussed. This is the most advanced reference guide to the state of the art in gear engineering. Topics are addressed from a theoretical standpoint, but in such a way as not to lose sight of the physical phenomena that characterize the various types of gears which are examined. The analytical and numerical solutions are formulated so as to be of interest not only to academics, but also to designers who deal with actual engineering problems concerning the gears

Stability & Control, Aerodynamic Design, and Structures, Loads & Vibrations Nov 14 2020

Direct Gear Design Mar 07 2020 Over the last several decades, gearing development has focused on improvements in materials, manufacturing technology and tooling, thermal treatment, and coatings and lubricants. In contrast, gear design methods have remained frozen in time, as the vast majority of gears are designed with standard tooth proportions. This over-standardization significantly limits the potential performance of custom gear drives, especially in demanding aerospace or automotive applications. Direct Gear Design introduces an alternate gear design approach to maximize gear drive performance in custom gear applications. Developed by the author, the Direct Gear Design® method has been successfully implemented in a wide variety of custom gear transmissions over the past 30 years. The results are maximized gear drive performance, increased transmission load capacity and efficiency, and reduced size and weight. This book explains the method clearly, making it easy to apply to actual gear design. Describes the origin and theoretical foundations of the Direct Gear Design approach as well as some of its applications—and its limits Details the optimization techniques and the specifics of Direct Gear Design Discusses how this approach can be used with asymmetric gears to further improve performance Describes tolerance selection, manufacturing technologies, and measurement methods of custom gears Compares Direct Gear Design with traditional gear design from both an analytical and an experimental perspective Illustrates the applicability and benefits of this gear design approach with implementation examples Written by an engineer for engineers, this book presents a unique alternative to traditional gear design. It inspires readers to explore ways of improving gear transmission performance in custom gear applications, from higher transmission load capacity, efficiency, and reliability to lower size, weight, and cost.

Design of One-Stage Overhang Pinion Engagement System for Cv Starter Feb 27 2022 Indian vehicle operating conditions are extreme in terms of water, dust, and oil environment. Indian commercial vehicle market segment is more populated in the engine capacity range 3-7Lt. The system component, Starter motor with closed end shield type is preferred for Indian conditions. Bosch India group has a starter with nose type, -open end shield-, for the commercial vehicle segment, which is not suitable for dusty environment. Closed end shield starter requires new design of engagement system - overhang pinion type. In this project, one-stage overhang pinion type engagement system design for commercial vehicle starter is proposed and integrate it with motor. The target for the onestage overhang pinion type starter motor is to achieve a secure engagement for minimum immersion depth and meet speed criteria at start of immersion. The new design of one-stage overhang pinion type engagement system is achieved by designing the mechanical parts and simulating for dynamic pinion path analysis for the secure engagement conditions. The over-hang pinion type engagement system is developed and integrated with motor. This Starter is tested and results are verified for performance specific.

Chassis Handbook Oct 02 2019 In spite of all the assistance offered by electronic control systems, the latest generation of passenger car chassis still relies on conventional chassis elements. With a view towards driving dynamics, this book examines these conventional elements and their interaction with mechatronic systems. First, it describes the fundamentals and design of the chassis and goes on to examine driving dynamics with a particularly practical focus. This is followed by a detailed description and explanation of the modern components. A separate section is devoted to the axles and processes for axle development. With its revised illustrations and several updates in the text and list of references, this new edition already includes a number of improvements over the first edition.

Injection Mould Design (for Thermoplastics) Dec 04 2019

Gear Design Simplified Jan 29 2022 Diagrams, formulas, and text provide guidelines in problems involving the basic types of gears

The Practical Draughtsman's Book of Industrial Design, and Machinist's and Engineer's Drawing Companion: Forming a Complete Course of Mechanical, Engineering, and Architectural Drawing Jun 09 2020

Engineering Design 3 Checkbook Jan 17 2021 Engineering Design 3: Checkbook covers design descriptions and problems concerned with the automobile industry. The book starts by discussing the main factors that influence the choice of materials, such as mechanical and physical properties, manufacturing processes, anti-corrosive properties, and availability at low cost. The text describes the influence of manufacturing processes; costs; and ergonomic, safety, and esthetic factors on the design and the design detail. The main points relating to simple link and rotary mechanisms, including their terminologies and definitions, practical applications, and motor conversion, are also considered. The latter part of the book tackles the main points concerned with design evaluation and preparation (i.e., the importance of developing design appreciation and design comparison, process and modification). The book provides design assignments and worked problems together with the answers to the given problems. The text will be invaluable for engineering students.

Technical Drawing for Engineering Communication Mar 19 2021 TECHNICAL DRAWING FOR ENGINEERING COMMUNICATION, 7E offers a fresh, modern approach to technical drawing that combines the most current industry standards with up-to-date technologies and software, resulting in a valuable, highly relevant resource you won't want to be without. The book builds on features that made its previous editions so successful: comprehensive coverage of the total technical drawing experience that explores both the basic and advanced aspects of engineering and industrial technology and reviews both computer modeling and more traditional methods of technical drawing. Enhancements for the seventh edition include updates based on industry trends and regulations, an all-new chapter on employability skills, and additional content on SolidWorks 3D modeling software for drafting technicians. The end result is a tool that will give you the real-world skills needed for a successful career in CAD, drafting, or design. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Dudley's Handbook of Practical Gear Design and Manufacture, Second Edition Nov 07 2022 A unique, single source reference for all aspects of gears, Dudley's Handbook of Practical Gear Design and Manufacture, Second Edition provides comprehensive and consistent information on the design and manufacture of gears for the expert and novice alike. The second edition of this industry standard boasts seven new chapters and appendices as well as a wealth of updates throughout. New chapters and expanded topics include: Gear Types and Nomenclature, Gear Tooth Design, Gear Reactions and Mountings, Gear Vibration, The Evolution of the Gear Art, Novikov Gearing and the Inadequacy of the Term, and thoroughly referenced Numerical Data Tables. Features: Offers a single-source reference for all aspects of the gear industry Presents a comprehensive and self-consistent collection of knowledge, practical methods, and numerical tables Discusses optimal design and manufacture of gears of all known designs for the needs of all industries Explains concepts in accessible language and with a logical organization, making it simple to use even by beginners in the field Provides adequate recommendations for gear practitioners in all areas of gear design, production,

inspection, and application Includes practical examples of successful use of tools covered in the Handbook Logically organized and easily understood, the Handbook requires only a limited knowledge of mathematics for adequate application to almost any situation or question. Whether you are a high-volume gear manufacturer or a relatively small factory, the Handbook and some basic common sense can direct the sophisticated design of any type of gear, from the selection of appropriate material, production of gear blanks, cutting gear teeth, advanced methods of heat treatment, and gear inspection. No other sources of information are necessary for the gear designer or manufacturer once they have the Handbook.

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Gears Aug 04 2022 This book explores the geometric and kinematic design of various types of gears most commonly used in practical applications, while also considering the main problems involved in their cutting processes. Cylindrical spur and helical gears are first considered, and their main geometric quantities are determined with regard to interference and undercut problems, as well as related kinematic parameters. Particular attention is paid to the profile shift in these types of gears, produced by either a rack-type cutter or pinion-rack cutter. Among other things, profile-shifted toothing makes it possible to obtain teeth shapes that are stronger and offer more balanced specific sliding, and to reduce the number of teeth below the minimum normally required to avoid operating interference or undercut. In turn, these essential aspects of the geometric-kinematic design of cylindrical spur and helical gears are generalized and extended to the other types of gear examined, such as: straight bevel gears, crossed helical gears, worm gears, spiral bevel and hypoid gears. In closing, ordinary gear trains, planetary gear trains and face gear drives are discussed.

A Text Book of Machine Design May 09 2020

Recent Advances in Mechanical Engineering Nov 02 2019 This book presents select proceedings of the International Conference on Recent Advances in Mechanical Engineering Research and Development (ICRAMERD 21). It covers the latest research trends in various branches of mechanical engineering. The topics covered include materials engineering, industrial system engineering, manufacturing systems engineering, automotive engineering, thermal systems, smart composite materials, manufacturing processes, industrial automation, and energy system. The book will be a valuable reference for beginners, researchers, engineers, and industry professionals working in the various fields of mechanical engineering. .

Standard Gear Book Sep 05 2022 This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1917 edition. Excerpt: ... (6) Columns for Discount on Purchases and Discount on Notes on the same side of the Cash Book; (c) Columns for Discount on Sales and Cash Sales on the debit side of the Cash Book; (d) Departmental columns in the Sales Book and in the Purchase Book. Controlling Accounts.--The addition of special columns in books of original entry makes possible the keeping of Controlling Accounts. The most common examples of such accounts are Accounts Receivable account and Accounts Payable account. These summary accounts, respectively, displace individual customers' and creditors' accounts in the Ledger. The customers' accounts are then segregated in another book called the Sales Ledger or Customers' Ledger, while the creditors' accounts are kept in the Purchase or Creditors' Ledger. The original Ledger, now much reduced in size, is called the General Ledger. The Trial Balance now refers to the accounts in the General Ledger. It is evident that the task of taking a Trial Balance is greatly simplified because so many fewer accounts are involved. A Schedule of Accounts Receivable is then prepared, consisting of the balances found in the Sales Ledger, and its total must agree with the balance of the Accounts Receivable account shown in the Trial Balance. A similar Schedule of Accounts Payable, made up of all the balances in the Purchase Ledger, is prepared, and it must agree with the balance of the Accounts Payable account of the General Ledger." The Balance Sheet.--In the more elementary part of the text, the student learned how to prepare a Statement of Assets and Liabilities for the purpose of disclosing the net capital of an enterprise. In the present chapter he was shown how to prepare a similar statement, the Balance Sheet. For all practical...