

Handbook Of Practical Gear Design And Manufacture

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It is your unconditionally own mature to action reviewing habit. in the midst of guides you could enjoy now is **Handbook Of Practical Gear Design And Manufacture** below.

Standard Handbook of Machine Design - Joseph Edward Shigley 1996

The latest ideas in machine analysis and design have led to a major revision of the field's leading handbook. New chapters cover ergonomics, safety, and computer-aided design, with revised information on numerical methods, belt devices, statistics, standards, and codes and regulations. Key features include: *new material on

ergonomics, safety, and computer-aided design; *practical reference data that helps machines designers solve common problems--with a minimum of theory. *current CAS/CAM applications, other machine computational aids, and robotic applications in machine design. This definitive machine design handbook for product designers, project engineers, design engineers, and manufacturing engineers covers every aspect of machine

construction and operations. Voluminous and heavily illustrated, it discusses standards, codes and regulations; wear; solid materials, seals; flywheels; power screws; threaded fasteners; springs; lubrication; gaskets; coupling; belt drive; gears; shafting; vibration and control; linkage; and corrosion.

Design for Manufacturability

Handbook - James G. Bralla
1998-08-22

From raw materials ... to machining and casting ... to assembly and finishing, the Second Edition of this classic guide will introduce you to the principles and procedures of Design for Manufacturability (DFM)Ñthe art of developing high-quality products for the lowest possible manufacturing cost. Written by over 70 experts in manufacturing and product design, this update features cutting-edge techniques for every stage of manufacturingÑplus entirely new chapters on DFM for Electronics, DFX (Designing for all desirable attributes), DFM

for Low-Quality Production, and Concurrent Engineering.
[Gear Motor Handbook](#) -
Bonfiglioli Riduttori S.p.A.
2012-12-06

In these years of constant growth and further development for our company, research and development has become more and more important, and has allowed us to be at the forefront in our business sector, where innovation is the obvious and decisive factor. It has therefore been consistent with our everyday business philosophy to involve ourselves deeply in writing and printing this handbook, which is designed to recognize the capacity and hard work of all employees working successfully in the Bonfiglioli Group. The book is intended to be a concrete contribution by Bonfiglioli Riduttori S.p.A. to the development and application of power transmissions. The book is addressed to all who have technical dealings with power transmissions, from university students to engineers active in the workplace. For this reason

we have invited the cooperation of four prestigious professionals - Darle W. Dudley, Jacques Sprengers, Dierk Schröder, and Hajime Yamashina - in the knowledge that only through the cooperation of the leading specialists in the field of power transmissions could we develop a truly useful and helpful handbook. It has been hard work, but we are sure the reader's appreciation will amply reward our efforts.

Theory of Gearing - Stephen P. Radzevich 2018-05-15
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.

Fundamentals of Machine Elements - Bernard J. Hamrock 2007-02-01
Provides undergraduates and practicing engineers with an

understanding of the theory and applications behind the fundamental concepts of machine elements. This text includes examples and homework problems designed to test student understanding and build their skills in analysis and design.

Fundamentals of Machine Component Design - Robert C. Juvinall 2020-06-23
Fundamentals of Machine Component Design presents a thorough introduction to the concepts and methods essential to mechanical engineering design, analysis, and application. In-depth coverage of major topics, including free body diagrams, force flow concepts, failure theories, and fatigue design, are coupled with specific applications to bearings, springs, brakes, clutches, fasteners, and more for a real-world functional body of knowledge. Critical thinking and problem-solving skills are strengthened through a graphical procedural framework, enabling the effective identification of problems and clear

presentation of solutions. Solidly focused on practical applications of fundamental theory, this text helps students develop the ability to conceptualize designs, interpret test results, and facilitate improvement. Clear presentation reinforces central ideas with multiple case studies, in-class exercises, homework problems, computer software data sets, and access to supplemental internet resources, while appendices provide extensive reference material on processing methods, joinability, failure modes, and material properties to aid student comprehension and encourage self-study.

Handbook of Gear Design -
Gitin M. Maitra 1985

The Sound Reinforcement Handbook - Gary Davis 1989 (Yamaha Products). Sound reinforcement is the use of audio amplification systems. This book is the first and only book of its kind to cover all aspects of designing and using such systems for public address and musical

performance. The book features information on both the audio theory involved and the practical applications of that theory, explaining everything from microphones to loudspeakers. This revised edition features almost 40 new pages and is even easier to follow with the addition of an index and a simplified page and chapter numbering system. New topics covered include: MIDI, Synchronization, and an Appendix on Logarithms. 416 Pages.

Planetary Gear Trains - Kiril Arnaudov 2019-03-27

This book provides comprehensive information for various planetary gear trains, with practical applications and comprehensive references to technical articles. In the text's chapters, readers can find all the information needed for various types of gear trains, with illustrations and examples. The authors help gear designers to creatively understand the design of gears, as well as master the mechanical calculations needed. Planetary Gear Trains

is the most comprehensive and up-to-date work available in this key technical area. The book reflects not only teaching, but also the practical experience of the authors. It was developed under the motto "From practice to practice".

Theory of Gearing - Stephen P. Radzevich 2012-07-19

The first book of its kind, *Theory of Gearing: Kinematics, Geometry, and Synthesis* systematically develops a scientific theory of gearing that makes it possible to synthesize novel gears with the desired performance. Written by a leading gearing expert who holds more than 200 patents, it presents a modern methodology for gear design. The proposed theory is based on a key postulate: all the design parameters for an optimal gear pair for a particular application can be derived from (a) a given configuration of the rotation vectors of the driving and driven shafts and (b) the power transmitted by the gear pair. This allows engineers to synthesize the desired gear

pairs with only the following input information: The rotation and torque on the driving shaft
The configuration of the driven shaft in relation to the driving shaft
The desired rotation and torque of the driven shaft
Beginning with the fundamentals, the book reconsiders the basic theory of kinematics and geometry of gears to provide a sound basis for the evaluation and development of future designs. It then examines ideal and real gearing for parallel-axis, intersected-axis, and crossed-axis gearing. The book addresses how to minimize vibration and noise in gears, discusses aspects of implementing the theory of gearing, and analyzes principal features of power transmission and the loading of gear teeth. More than 500 figures clearly illustrate the principles. This is an invaluable resource for engineers and researchers who work in gear design, gear production, and the application of gears as well as for students in mechanical and manufacturing engineering.

Covering all known gear designs, this book offers an analytical solution to the problem of designing optimal gear pairs for any given application. It also encourages researchers to further develop the theory of gearing.

Gear Design Simplified -

Franklin D. Jones 1984

Diagrams, formulas, and text provide guidelines in problems involving the basic types of gears

Gear Handbook - Darle W.

Dudley 1962

Dudley's Handbook of Practical Gear Design and Manufacture,

Second Edition - Stephen P.

Radzevich 2012-04-02

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.

Geometry of Surfaces -

Stephen P. Radzevich

2019-08-14

This updated and expanded edition presents a highly accurate specification for part surface machining. Precise specification reduces the cost of this widely used industrial operation as accurately specified and machined part surfaces do not need to undergo costly final finishing.

Dr. Radzevich describes

techniques in this volume based primarily on classical differential geometry of surfaces. He then transitions from differential geometry of surfaces to engineering geometry of surfaces, and examines how part surfaces are either machined themselves, or are produced by tools with surfaces that are precisely machined. The book goes on to explain specific methods, such as derivation of planar characteristic curves based on Plücker conoid constructed at a point of the part surface, and that analytical description of part surface is vital for surfaces machined using CNC technology, and especially so for multi-axes NC machines. Providing readers with a powerful tool for analytical description of part surfaces machined on conventional machine tools and numerically controlled machines, this book maximizes understanding on optimal treatment of part surfaces to meet the requirements of today's high tech industry.

Fundamentals of Gear Design - Raymond J. Drago
1988

Systematic Analysis of Gear Failures - Lester E. Alban
1985-01-01

Explores the detailed steps necessary to determine the causes of failure. First, the physical characteristics of a gear are studied: where the stress points are, from what directions the forces are applied, where the movement of material progresses, and where strain patterns exist. Second, all external conditions and forces are considered. With this background information, a systematic examination is described from beginning to end, the end being a conclusion about the mode and cause of failure.

Cam Design Handbook - Harold A. Rothbart 2004
The cam, used to translate rotary motion into linear motion, is an integral part of many classes of machines, such as printing presses, textile machinery, gear-cutting machines, and screw machines.

Emphasizing computer-aided design and manufacturing techniques, as well as sophisticated numerical control methods, this handbook allows engineers and technicians to utilize cutting edge design tools. It will decrease time spent on the drawing board and increase productivity and machine accuracy. * Cam design, manufacture, and dynamics of cams * The latest computer-aided design and manufacturing techniques * New cam mechanisms including robotic and prosthetic applications

Handbook of Die Design - Ivana Suchy 2005-12-23

This classic handbook provides the major formulas, calculations, cost estimating techniques, and safety procedures needed for specific die operations and performance evaluations. Dies are the most commonly used manufacturing methodology for the production of complex, high-precision parts Filled with charts, step-by-step guidelines, design details, formulas and calculations, and diagrams

Updated to reflect the latest developments in the field, including new hardware components, custom-made automated systems, rotary bending techniques, new tool coating processes, and more

Mechanical Conveyors -

Thomas Skocir 2018-04-27

This book is a comprehensive, practical guide and reference to today's mechanical conveyor systems. It covers all types of mechanical conveyors, providing in-depth information on their design, function and applications. More than 180 photographs and schematics illustrate details of design and system layout. An introductory chapter provides an understanding of the characteristics of various types of bulk solids, including their conveyability and the types of conveying systems most effective for each. Following chapters examine each of five major categories of conveying systems, with practical details on their design, operation and applications. The final chapter presents basic information on motors and drives for

conveying systems, as well as related equipment such as speed reduction systems and conveyor brakes. The emphasis throughout the text is on practical engineering and operating information, with a minimum of theory. The presentation is systematic and organized for easy reference. A very detailed index enables the quick location of needed information. This guide and reference will be useful to all engineers and other personnel involved in the continuous movement of bulk solids. It serves as both a basic introduction and a desk-top reference. The Authors Dr. Fayed is a Professor and Director of the Powder Science & Technology Group at Ryerson Polytechnic University in Toronto. He is also a licensed Consulting Engineer, a Fellow of the American Institute of Chemical Engineers and the Canadian Society of Chemical Engineering. Previously he held positions in process design and development with ICI, Davy McKee, M. W. Kellogg, and

Peabody. He has lectured at numerous seminars and workshops at meetings of the American Institute of Chemical Engineers, and other organizations. He has published many papers on particulate technology and is the co-editor of Powder Science & Technology Handbook. Thomas Skocir is an engineer presently with ECO-TEC

Machine Designers

Reference - Jen Marrs 2012

This unique reference is intended to help users learn SolidWorks on their own with little or no outside help. Unlike other books of its kind, it begins at a very basic level and ends at a fairly advanced level. It has been updated to include all new features of SolidWorks 2010 - 2011. And it's perfect for anyone enrolled in Engineering and Technology programs, as well as professionals interested in learning SolidWorks.

Product Design for Manufacture and Assembly - Geoffrey Boothroyd 2010-12-08
Hailed as a groundbreaking

and important textbook upon its initial publication, the latest iteration of Product Design for Manufacture and Assembly does not rest on those laurels. In addition to the expected updating of data in all chapters, this third edition has been revised to provide a top-notch textbook for university-level courses in product **Gear Materials, Properties, and Manufacture** - Joseph R. Davis 2005

All of the critical technical aspects of gear materials technology are addressed in this new reference work. Gear Materials, Properties, and Manufacture is intended for gear metallurgists and materials specialists, manufacturing engineers, lubrication technologists, and analysts concerned with gear failures who seek a better understanding of gear performance and gear life. This volume complements other gear texts that emphasize the design, geometry, and theory of gears. The coverage begins with an overview of the various types of gears used, important

gear terminology, applied stresses and strength requirements associated with gears, and lubrication and wear. This is followed by in-depth treatment of metallic (ferrous and nonferrous alloys) and plastic gear materials. Emphasis is on the properties of carburized steels, the material of choice for high-performance power transmission gearing.

Advances in Gear Design and Manufacture - Stephen P. Radzevich 2019-04-30

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.

Dudley's Handbook of Practical Gear Design and Manufacture - Taylor & Francis Group 2021-08-25

The fourth edition of *Dudley's Handbook of Practical Gear Design* 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 the 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. Including comprehensive tables and references, this is the definitive guide for all those in the field of gear technology, from industry professionals to undergraduate and postgraduate engineering students.

Direct Gear Design -

Alexander L. Kapelevich
2013-03-22

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 signif

Forsthoffer's Best Practice Handbook for Rotating Machinery - William E. Forsthoffer 2011-05-21

Optimize plant asset safety and reliability while minimizing operating costs with this invaluable guide to the engineering, operation and maintenance of rotating equipment Based upon his multi-volume Rotating Equipment Handbooks, Forsthoffer's Best Practice Handbook for Rotating Machinery summarises, expands and updates the content from these previous books in a convenient all-in-one volume. Offering comprehensive technical coverage and insider information on best practices derived from lessons learned in the engineering, operation and maintenance of a wide array of rotating equipment, this new title presents: A unique "Best

Practice" and "Lessons Learned" chapter framework, providing bite-sized, troubleshooting instruction on complex operation and maintenance issues across a wide array of industrial rotating machinery. Five chapters of completely new material combined with updated material from earlier volumes, making this the most comprehensive and up-to-date handbook for rotary equipment currently available. Intended for maintenance, engineering, operation and management, Forsthoffer's Best Practice Handbook for Rotating Machinery is a one-stop resource, packed with a lifetime's rotating machinery experience, to help you improve efficiency, safety, reliability and cost. A unique "Lessons Learned/Best Practices" component opens and acts as a framework for each chapter. Readers not only become familiar with a wide array of industrial rotating machinery; they learn how to operate and maintain it by adopting the troubleshooting

perspective that the book provides Five chapters of completely new material combined with totally updated material from earlier volumes of Forsthoffer's Handbook make this the most comprehensive and up-to-date handbook for rotary equipment currently Users of Forsthoffer's multi-volume Rotating Equipment Handbooks now have an updated set, with expanded coverage, all in one convenient, reasonably-priced volume

Mechanical Design Engineering Handbook -

Peter R. N. Childs 2013-09-02
Mechanical Design

Engineering Handbook is a straight-talking and forward-thinking reference covering the design, specification, selection, use and integration of machine elements fundamental to a wide range of engineering applications. Develop or refresh your mechanical design skills in the areas of bearings, shafts, gears, seals, belts and chains, clutches and brakes, springs, fasteners, pneumatics and hydraulics, amongst other

core mechanical elements, and dip in for principles, data and calculations as needed to inform and evaluate your on-the-job decisions. Covering the full spectrum of common mechanical and machine components that act as building blocks in the design of mechanical devices,

Mechanical Design

Engineering Handbook also includes worked design scenarios and essential background on design methodology to help you get started with a problem and repeat selection processes with successful results time and time again. This practical handbook will make an ideal shelf reference for those working in mechanical design across a variety of industries and a valuable learning resource for advanced students undertaking engineering design modules and projects as part of broader mechanical, aerospace, automotive and manufacturing programs. Clear, concise text explains key component technology, with step-by-step procedures, fully

worked design scenarios, component images and cross-sectional line drawings all incorporated for ease of understanding Provides essential data, equations and interactive ancillaries, including calculation spreadsheets, to inform decision making, design evaluation and incorporation of components into overall designs Design procedures and methods covered include references to national and international standards where appropriate

Manufacturing Processes Reference Guide - Robert H. Todd 1994

An abridgement of a 17-volume set of instructional materials, this guide offers brief descriptions of some 130 manufacturing processes, tools, and materials in such areas a mechanical, thermal, and chemical reducing; consolidation; deformation; and thermal joining. Includes numerous tables and illustrations. Annotation copyright by Book News, Inc., Portland, OR

Gear Drive Systems - Peter
Lynwander 2019-01-22

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.

Gleason Bevel Gear Technology - Hermann J.
Stadtfeld 2014-05-01

The context of natural forest management and FSC

certification in Brazil - Claudia
Romero 2015-12-30

Management decisions on appropriate practices and policies regarding tropical forests often need to be made in spite of innumerable uncertainties and complexities. Among the uncertainties are the lack of formalization of lessons learned regarding the impacts of previous programs and projects. Beyond the challenges of generating the proper information on these

impacts, there are other difficulties that relate with how to socialize the information and knowledge gained so that change is transformational and enduring. The main complexities lie in understanding the interactions of social-ecological systems at different scales and how they varied through time in response to policy and other processes. This volume is part of a broad research effort to develop an independent evaluation of certification impacts with stakeholder input, which focuses on FSC certification of natural tropical forests. More specifically, the evaluation program aims at building the evidence base of the empirical biophysical, social, economic, and policy effects that FSC certification of natural forest has had in Brazil as well as in other tropical countries. The contents of this volume highlight the opportunities and constraints that those responsible for managing natural forests for timber production have experienced in their efforts to

improve their practices in Brazil. As such, the goal of the studies in this volume is to serve as the foundation to design an impact evaluation framework of the impacts of FSC certification of natural forests in a participatory manner with interested parties, from institutions and organizations, to communities and individuals.

Dudley's Handbook of Practical Gear Design and Manufacture - Stephen P. Radzevich 2016-09-15

Dudley's Handbook of Practical Gear Design & Manufacture, Third Edition, is the definitive reference work for gear design, production, inspection, and application. This fully updated edition provides practical methods of gear design, and gear manufacturing methods, for high-, medium-, and low-volume production. Comprehensive tables and references are included in the text and in its extensive appendices, providing an invaluable source information for all those involved in the field of gear technology.

Advances in Gear Design and Manufacture - Stephen P. Radzevich 2019-06

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.

Design Engineer's Sourcebook - K. L. Richards 2017-12-15
Design Engineer's Sourcebook provides a practical resource

for engineers, product designers, technical managers, students, and others needing a design-oriented reference. This volume covers the mathematics, mechanics, and materials properties needed for analysis and design, with numerous examples. A wide range of mechanical components and mechanisms are then covered, with case studies interspersed to show real engineering practice. Manufacturing is then surveyed, in the context of mechanical design. The book concludes with information on clutches, brakes, transmission and other topics important for vehicle engineering. Tables, figures and charts are included for reference.

Tool and Manufacturing

Engineers Handbook: Plastic Part Manufacturing -

Philip Mitchell 1996-12-09

This volume focuses on the practical application of processes for manufacturing plastic products. It includes information on design for manufacturability (DFM), material selection, process

selection, dies, molds, and tooling, extrusion, injection molding, blow molding, thermoforming, lamination, rotational molding, casting, foam processing, compression and transfer molding, fiber reinforced processing, assembly and fabrication, quality, plant engineering and maintenance, management.

Gears and Gear Drives - Damir T. Jelaska 2012-08-23

Understanding how gears are formed and how they interact or 'mesh' with each other is essential when designing equipment that uses gears or gear trains. The way in which gear teeth are formed and how they mesh is determined by their geometry and kinematics, which is the topic of this book. Gears and Gear Drives provides the reader with comprehensive coverage of gears and gear drives. Spur, helical, bevel, worm and planetary gears are all covered, with consideration given to their classification, geometry, kinematics, accuracy control, load capacity and manufacturing. Cylindrical

gear geometry is the basis for dealing with any gear drives, so this is covered in detail. Key features: Contains hundreds of 2D and 3D figures to illustrate all types of gears and gear drives, including planetary and worm gears Includes fundamental derivations and explanations of formulae Enables the reader to know how to carry out accuracy control and load capacity checks for any gear drive Includes directions for the practical design of gears and gear drives Covers DIN and ISO standards in the area Gears and Gear Drives is a comprehensive reference for gears and gear drive professionals and graduate students in mechanical engineering departments and covers everything important to know how to design, control and manufacture gear drives.

Gear Cutting Tools - Stephen P. Radzevich 2017-10-16

Gear Cutting Tools: Fundamentals of Design and Computation, Second Edition, presents the DG/K-based method of surface generation,

a practical mathematical method for designing gear cutting tools with optimal parameters. The text addresses gear cutting tool evolution, and proceeds to scientific classification for all types of gear machining meshes before discussing optimal cutting tool designs. Designs currently used and those being planned are covered, and the approach allows for development of scientific predictions and optimal designs. Solutions appear in analytical form and/or graphical form, with a wealth of new figures added, and new appendices offer additional data for readers.

Manual Gearbox Design - Alec Stokes 1992

A must-have book for anyone designing manual gearboxes, based on 40 years of industrial experience.

Handbook of Practical Gear Design - Stephen P. Radzevich 1994-10-21

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.

Dudley's Gear Handbook -
Darle W. Dudley 1991