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Machine Drawing Fundamentals of Engineering Drawing **ENGINEERING GRAPHICS WITH AUTOCAD Visualization, Modeling, and Graphics for Engineering Design** Engineering Graphics & Design | AICTE Prescribed Textbook - English Introduction to SolidWorks **Manufactured Fibre Technology** **Automotive Transmissions** **Analytical And Experimental Evaluation Of Flange Wrinkling In Sheet Metal Forming** Cellular Solids Computer Aided Engineering Drawing (As Per The Latest Bis Standards Sp: 46-2003) , Third Edition Engineering Drawing And Computer Graphics (For Wbut) Structure and Properties of High-Performance Fibers **Indian Perspective** Mathematics for Machine Learning Additive Manufacturing Technologies **Engineering Drawing And Graphics The Probability Tutoring Book** **Textbook of Engineering Drawing** Experimentation, Validation, and Uncertainty Analysis for Engineers **Engineering Drawing Learner Centered Learning 2020** **Irrigation and Water Resources** **Engineering Modern Manufacturing Processes** Sheet Metal 2021 Jig and Fixture Design Unlocking the Gates **ENGINEERING GRAPHICS FOR DEGREE** Machine Drawing Weaving Computer Aided Engineering Design **Basic Civil Engineering Advanced Concepts of GD&T** Modeling and Simulation of Mechatronic Systems using Simscape **Design Of Steel Structures (By Limit State Method As Per Is: 800 2007)** Systems Approach to Computer-Integrated Design and Manufacturing Fundamentals of Machine Design Engineering Drawing and Computer Graphics **Heat Transfer Equipment Design** **CAD/CAM/CIM**

In this new edition of their classic work on Cellular Solids, the authors have brought the book completely up to date, including new work on processing of metallic and ceramic foams and on the mechanical, electrical and acoustic properties of cellular solids. Data for commercially available foams are presented on material property charts; two new case studies show how the charts are used for selection of foams in engineering design. Over 150 references appearing in the literature since the publication of the first edition are cited. The text summarises current understanding of the structure and mechanical behaviour of cellular materials, and the ways in which they can be exploited in engineering design. Cellular solids include engineering honeycombs and foams (which can now be made from polymers, metals, ceramics and composites) as well as natural materials, such as wood, cork and cancellous bone. The Technology Of Cad/Cam/Cim Deals With The Creation Of Information At Different Stages From Design To Marketing And Integration Of Information And Its Effective Communication Among The Various Activities Like Design, Product Data Management, Process Planning, Production Planning And Control, Manufacturing, Inspection, Materials Handling Etc., Which Are Individually Carried Out Through Computer Software. Seamless Transfer Of Information From One Application To Another Is What Is Aimed At. This Book Gives A Detailed Account Of The Various Technologies Which Form Computer Based Automation Of Manufacturing Activities. The Issues Pertaining To Geometric Model Creation, Standardisation Of graphics Data, Communication, Manufacturing Information Creation And Manufacturing Control Have Been Adequately Dealt With. Principles Of Concurrent Engineering Have Been Explained And Latest Software In The Various Application Areas Have Been Introduced. The Book Is Written With Two Objectives To Serve As A Textbook For Students Studying Cad/Cam/Cim And As A Reference Book For Professional Engineers. In Computer Aided Engineering Drawing, the author draws upon his vast experience of teaching and presents a student friendly step-by-step demonstrative approach, similar to that of classroom teaching. Key Features: * Use of updated B.I.S. conventions. * Incorporates standard

assumptions in case of incomplete data by framing special problems. * Introduces various softwares for computer-aided engineering drawings. * Includes solved problems using different methods. * A concise summary at the end of each chapter for quick revision. * Includes solutions to difficult problems using 3-D diagrams. * Examination problems of VTU and other universities have been included in the exercise section for practice. Hints have been given to solve the problems where necessary. * The complete book has been written with classroom teaching approach. This textbook covers in detail digitally-driven methods for adding materials together to form parts. A conceptual overview of additive manufacturing is given, beginning with the fundamentals so that readers can get up to speed quickly. Well-established and emerging applications such as rapid prototyping, micro-scale manufacturing, medical applications, aerospace manufacturing, rapid tooling and direct digital manufacturing are also discussed. This book provides a comprehensive overview of additive manufacturing technologies as well as relevant supporting technologies such as software systems, vacuum casting, investment casting, plating, infiltration and other systems. Reflects recent developments and trends and adheres to the ASTM, SI and other standards; Includes chapters on topics that span the entire AM value chain, including process selection, software, post-processing, industrial drivers for AM, and more; Provides a broad range of technical questions to ensure comprehensive understanding of the concepts covered. So far working stress method was used for the design of steel structures. Nowadays whole world is going for the limit state method which is more rational. Indian national code IS:800 for the design of steel structures was revised in the year 2007 incorporating limit state method. This book is aimed at training the students in using IS: 800 2007 for designing steel structures by limit state method. The author has explained the provisions of code in simple language and illustrated the design procedure with a large number of problems. It is hoped that all universities will soon adopt design of steel structures as per IS: 2007 and this book will serve as a good textbook. A sincere effort has been made to present design procedure using simple language, neat sketches and solved problems. The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site. Manufactured Fibre Technology provides an accessible and comprehensive treatment of the chemical, physical and mechanical processes involved in the production of all important commodity manufactured fibres and most of the industrial fibres. The emphasis is on the fundamental principles and industrial aspects of production. Latest developments in manufactured fibres in terms of manufacturing processes, characteristics and their applications are also covered. Manufactured Fibre Technology is designed around twenty chapters with a balance of basic principles and production of specific fibre types. Newer and industrially relevant areas such as high speed spinning, production of speciality fibres (including microfibres), computer simulation of spinning, high performance fibres, spun-bonding and melt-blowing, and re-use of fibre waste are included. The structure, property and application areas of each fibre type are also discussed, thus providing a broad understanding of the subject. In addition, various aspects related to the testing and characterisation of fibres and polymers are reviewed. This book is an invaluable resource to students, lecturers, industrial technologists and researchers in this subject area. The Book Irrigation And Water Resources Engineering Deals With The Fundamental And General Aspects Of Irrigation And Water Resources Engineering And Includes Recent Developments In Hydraulic Engineering Related To

Irrigation And Water Resources Engineering. Significant Inclusions In The Book Are A Chapter On Management (Including Operation, Maintenance, And Evaluation) Of Canal Irrigation In India, Detailed Environmental Aspects For Water Resource Projects, A Note On Interlinking Of Rivers In India, And Design Problems Of Hydraulic Structures Such As Guide Bunds, Settling Basins Etc. The First Chapter Of The Book Introduces Irrigation And Deals With The Need, Development And Environmental Aspects Of Irrigation In India. The Second Chapter On Hydrology Deals With Different Aspects Of Surface Water Resource. Soil-Water Relationships Have Been Dealt With In Chapter 3. Aspects Related To Ground Water Resource Have Been Discussed In Chapter 4. Canal Irrigation And Its Management Aspects Form The Subject Matter Of Chapters 5 And 6. Behaviour Of Alluvial Channels And Design Of Stable Channels Have Been Included In Chapters 7 And 8, Respectively. Concepts Of Surface And Subsurface Flows, As Applicable To Hydraulic Structures, Have Been Introduced In Chapter 9. Different Types Of Canal Structures Have Been Discussed In Chapters 10, 11, And 13. Chapter 12 Has Been Devoted To Rivers And River Training Methods. After Introducing Planning Aspects Of Water Resource Projects In Chapter 14, Embankment Dams, Gravity Dams And Spillways Have Been Dealt With, Respectively, In Chapters 15, 16 And 17. The Students Would Find Solved Examples (Including Design Problems) In The Text, And Unsolved Exercises And The List Of References Given At The End Of Each Chapter Useful. Selected peer-reviewed full text papers from the 19th International Conference on Sheet Metal (SheMet 2021) Selected, peer-reviewed papers from the 19th International Conference on Sheet Metal (SheMet 2021), March 29-31, 2021, Erlangen, Germany About the Book: Written by three distinguished authors with ample academic and teaching experience, this textbook, meant for diploma and degree students of Mechanical Engineering as well as those preparing for AMIE examination, incorporates the latest st Over the past decade, a small revolution has taken place at some of the world's leading universities, as they have started to provide free access to undergraduate course materials--including syllabi, assignments, and lectures--to anyone with an Internet connection. Yale offers high-quality audio and video recordings of a careful selection of popular lectures, MIT supplies digital materials for nearly all of its courses, Carnegie Mellon boasts a purpose-built interactive learning environment, and some of the most selective universities in India have created a vast body of online content in order to reach more of the country's exploding student population. Although they don't offer online credit or degrees, efforts like these are beginning to open up elite institutions--and may foreshadow significant changes in the way all universities approach teaching and learning. Unlocking the Gates is one of the first books to examine this important development. Drawing on a wide range of sources, including extensive interviews with university leaders, Taylor Walsh traces the evolution of these online courseware projects and considers the impact they may have, both inside elite universities and beyond. As economic constraints and concerns over access demand more efficient and creative teaching models, these early initiatives may lead to more substantial innovations in how education is delivered and consumed--even at the best institutions. Unlocking the Gates tells an important story about this form of online learning--and what it might mean for the future of higher education. A new discipline is said to attain maturity when the subject matter takes the shape of a textbook. Several textbooks later, the discipline tends to acquire a firm place in the curriculum for teaching and learning. Computer Aided Engineering Design (CAED), barely three decades old, is interdisciplinary in nature whose boundaries are still expanding. However, it draws its core strength from several acknowledged and diverse areas such as computer graphics, differential geometry, Boolean algebra, computational geometry, topological spaces, numerical analysis, mechanics of solids, engineering design and a few others. CAED also needs to show its strong linkages with Computer Aided Manufacturing (CAM). As is true with any growing discipline, the literature is widespread in research journals, edited books, and conference proceedings. Various textbooks have appeared with different biases, like geometric modeling, computer graphics, and CAD/CAM over the last decade. This book goes into mathematical foundations and the core subjects of CAED without allowing itself to be overshadowed by computer graphics. It is written in a logical and thorough manner for use mainly by senior and graduate level students as well as users and

developers of CAD software. The book covers (a) The fundamental concepts of geometric modeling so that a real understanding of designing synthetic surfaces and solid modeling can be achieved. (b) A wide spectrum of CAED topics such as CAD of linkages and machine elements, finite element analysis, optimization. (c) Application of these methods to real world problems. Volume is indexed by Thomson Reuters BCI (WoS). A forum of researchers, educators and engineers involved in various aspects of Machine Design provided the inspiration for this collection of peer-reviewed papers. The resultant dissemination of the latest research results, and the exchange of views concerning the future research directions to be taken in this field will make the work of immense value to all those having an interest in the topics covered. The book reflects the cooperative efforts made in seeking out the best strategies for effecting improvements in the quality and the reliability of machines and machine parts and for extending their fields of application. This book provides a detailed study of geometrical drawing through simple and well-explained worked-out examples. It is designed for first-year engineering students of all branches. The book is divided into seven modules. A topic is introduced in each chapter of a module with brief explanations and necessary pictorial views. Then it is discussed in detail through a number of worked-out examples, which are explained using step-by-step procedure and illustrating drawings. Module A covers the fundamentals of manual drafting, lettering, freehand sketching and dimensioning of views. Module B describes two-dimensional drawings like geometrical constructions, conics, miscellaneous curves and scales. Three-dimensional drawings, such as projections of points, lines, plane lamina, geometrical solids and sections of them are well explained in Module C. Module D deals with intersection of surfaces and their developments. Drawing of pictorial views is illustrated in Module E, which includes isometric projection, oblique projection and perspective projections. Module F covers the fundamentals of machine drawing. Finally, in Module G the book introduces computer-aided drafting (CAD) to make the readers familiar with the state-of-the-art techniques of drafting. Key Features : Follows the International Standard Organization (ISO) code of practice for drawing. Includes a large number of dimensioned illustrations, worked-out examples, and university questions and answers to explain the geometrical drawing process. Contains chapter-end exercises to help students develop their drawing skills. This textbook "Engineering Graphics and Design" is based on the latest outcome based model curriculum of the AICTE. The book covers complete syllabus catering requirements of all major technical universities and institutes and provides insights into traditional engineering graphics as well as treats of the subject using 2D and 3D design software. It offers technical details, current standard, real world examples and clearly explains theory and technique in highly visual and concise format. The topic covered in this book are arranged into 9 chapters comprising self-explanatory diagrams and solved examples. Salient Features: 1 Introduction of Engineering Drawing 1 Orthographic Projection 1 Projection of Solids 1 Section of Solids and Development of Surfaces 1 Isometric Projection 1 Overview of Computer Graphics 1 CAD Drawing 1 Solid Modelling 1 Team Design Project. A self-study guide for practicing engineers, scientists, and students, this book offers practical, worked-out examples on continuous and discrete probability for problem-solving courses. It is filled with handy diagrams, examples, and solutions that greatly aid in the comprehension of a variety of probability problems. This Third Edition helps you assess and manage uncertainty at all stages of experimentation and validation of simulations In this greatly expanded Third Edition, the acclaimed Experimentation, Validation, and Uncertainty Analysis for Engineers guides readers through the concepts of experimental uncertainty analysis and the applications in validating models and simulations, solving problems experimentally, and characterizing the behavior of systems. This Third Edition presents the current, internationally accepted methodology from ISO, ANSI, and ASME standards to cover the planning, design, debugging, and execution phases of experiments. Cases in which the experimental result is determined only once or when the result is determined multiple times in a test are addressed and illustrated with examples from the authors' experience. The important practical cases in which multiple measured variables share correlated errors are discussed in detail, and strategies to take advantage of such effects in calibrations and comparative testing situations are presented. The methodology for determining uncertainty by Monte Carlo analysis

is described in detail. Knowledge of the material in this Third Edition is a must for those involved in executing or managing experimental programs or validating models, codes, and simulations. Professionals and students in disciplines spanning the full range of engineering and science will find this book an essential guide. By emphasizing similarities among types and styles, Jig and Fixture Design, 5E speeds readers to a complete understanding of the why's and how's of designing and building a variety of different workholders for manufacturing. From simple template and plate-type jigs to complex channel and box-type tooling, this newly revised edition features more than 500 illustrations of tools and applications to spur readers to success. All-new sections on assembly tools, handling tools, and catalog reading enable readers to develop important skills. Specific examples of various jigs and commercially available fixtures also appear to guide readers in developing their understanding of how design principles, as well as the latest design and manufacturing technologies, are being applied in the construction of jigs and fixtures today. As in past editions, heavy emphasis is placed on the economics of jigs and fixtures, including methods and formulas for use in estimating workholder costs. A solid background in industrial processes, as well as machine shop technology, is assumed. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. For manufacturing enterprises to survive in the next century, they need to understand the latest concepts, business processes, and technologies in Computer-Integrated Design and Manufacturing. This one-stop reference provides up-to-date coverage of the most important topics in the field. This invaluable resource provides quantitative analysis of computer-integrated design and manufacturing systems that are useful for solving real world problems in industry. Solved examples and illustrations demonstrate each modern engineering design and manufacturing concept. In this book, the authors consider not only the design and operation of the loom itself, but also the preparation of yarns and packages, the design and structure of the fabrics produced, and the management aspects of weaving as an industrial process. A comprehensive reference book covering in depth the modern technology of woven fabric production. It will be of value of the practitioner and student alike. The information provided will enable the reader to judge how to produce a fabric suited to a particular purpose in the most economical way. The text is generously illustrated and there is a glossary of terms which is cross-referenced to the text and to an extensive list of cited literature. Originally published by Merrow 2nd edition 1982. When our army was winning, what was the need for a ceasefire? What was the need to halt the attack? Had it not been done at that time, the whole of Kashmir would have been an integral part of India today. Pakistan-occupied Kashmir would not have come into existence. Regrettably, it was never brought into the discussion as to why an untimely ceasefire was declared? What was the compulsion? In no history has it been written that the war-winning army declares a ceasefire at a time when a large part of its territory is occupied by foreign forces! Then the United Nations was approached on 1st January, 1948. This decision was also a personal decision of Prime Minister Jawaharlal Nehru. It was a big mistake; the country bore the brunt of it for years. —Amit Shah Union Home Minister We saw that the Leftist, elite society, the power system, the media had already established their narrative over the last several decades. These widely propagated narratives were the so-called truth. It was about our society, nationality, Ramjanmabhoomi, the inalienability and inevitability of Article 370 in Kashmir, social harmony, the role model of the country, the Western model of development, the imperative of English, etc. These were in relation to the beliefs and faith in so-called values which developed an inferiority complex about our history and past at the cost of our history and glorious knowledge tradition. —Anil Joshi Vice Chairman, Kendriya Hindi Shikshan Manda This Book Provides A Systematic Account Of The Basic Principles Involved In Engineering Drawing. The Treatment Is Based On The First Angle Projection. Salient Features: * Nomography Explained In Detail. * 555 Self-Explanatory Solved University Problems. * Step-By-Step Procedures. * Side-By-Side Simplified Drawings. * Adopts B.I.S. And I.S.O. Standards. * 1200 Questions Included For Self Test. The Book Would Serve As An Excellent Text For B.E., B.Tech., B.Sc. (Ap. Science) Degree And Diploma Students Of Engineering. Amie Students Would Also Find It Extremely Useful. A new book for a new generation of engineering

professionals, Visualization, Modeling, and Graphics for Engineering Design was written from the ground up to take a brand-new approach to graphic communication within the context of engineering design and creativity. With a blend of modern and traditional topics, this text recognizes how computer modeling techniques have changed the engineering design process. From this new perspective, the text is able to focus on the evolved design process, including the critical phases of creative thinking, product ideation, and advanced analysis techniques. Focusing on design and design communication rather than drafting techniques and standards, it goes beyond the what to explain the why of engineering graphics. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Provides an in-depth understanding of the fundamentals of a wide range of state-of-the-art materials manufacturing processes Modern manufacturing is at the core of industrial production from base materials to semi-finished goods and final products. Over the last decade, a variety of innovative methods have been developed that allow for manufacturing processes that are more versatile, less energy-consuming, and more environmentally friendly. This book provides readers with everything they need to know about the many manufacturing processes of today. Presented in three parts, Modern Manufacturing Processes starts by covering advanced manufacturing forming processes such as sheet forming, powder forming, and injection molding. The second part deals with thermal and energy-assisted manufacturing processes, including warm and hot hydrostamping. It also covers high speed forming (electromagnetic, electrohydraulic, and explosive forming). The third part reviews advanced material removal process like advanced grinding, electro-discharge machining, micro milling, and laser machining. It also looks at high speed and hard machining and examines advances in material modeling for manufacturing analysis and simulation. Offers a comprehensive overview of advanced materials manufacturing processes Provides practice-oriented information to help readers find the right manufacturing methods for the intended applications Highly relevant for material scientists and engineers in industry Modern Manufacturing Processes is an ideal book for practitioners and researchers in materials and mechanical engineering. Mechatronic Systems consist of components and/or sub-systems which are from different engineering domains. For example, a solenoid valve has three domains that work in a synergistic fashion: electrical, magnetic, and mechanical (translation). Over the last few decades, engineering systems have become more and more mechatronic. Automobiles are transforming from being gasoline-powered mechanical devices to electric, hybrid electric and even autonomous. This kind of evolution has been possible through the synergistic integration of technology that is derived from different disciplines. Understanding and designing mechatronic systems needs to be a vital component of today's engineering education. Typical engineering programs, however, mostly continue to train students in academic silos (otherwise known as majors) such as mechanical, electrical, or computer engineering. Some universities have started offering one or more courses on this subject and a few have even started full programs around the theme of Mechatronics. Modeling the behavior of Mechatronic systems is an important step for analysis, synthesis, and optimal design of such systems. One key training necessary for developing this expertise is to have comfort and understanding of the basic physics of different domains. A second need is a suitable software tool that implements these laws with appropriate flexibility and is easy to learn. This short text addresses the two needs: it is written for an audience who will likely have good knowledge and comfort in one of the several domains that we will consider, but not necessarily all; the book will also serve as a guide for the students to learn how to develop mechatronic system models with Simscape (a MATLAB tool box). The book uses many examples from different engineering domains to demonstrate how to develop mechatronic system models and what type of information can be obtained from the analyses. Salient Features: Provided simple step by step explanations to motivate self study of the subject. Free hand sketching techniques are provided. Worksheets for free hand practice are provided. A new chapter on Computer Aided Design and Drawing (CADD) is added. This book gives a full account of the development process for automotive transmissions. Main topics: - Overview of the traffic – vehicle – transmission system - Mediating the power flow in vehicles - Selecting the ratios - Vehicle transmission systems - basic design principles -

Typical designs of vehicle transmissions - Layout and design of important components, e.g. gearshifting mechanisms, moving-off elements, pumps, retarders - Transmission control units - Product development process, Manufacturing technology of vehicle transmissions, Reliability and testing The book covers manual, automated manual and automatic transmissions as well as continuously variable transmissions and hybrid drives for passenger cars and commercial vehicles. Furthermore, final drives, power take-offs and transfer gearboxes for 4-WD-vehicles are considered. Since the release of the first edition in 1999 there have been a lot of changes in the field of vehicles and transmissions. About 40% of the second edition's content is new or revised with new data. Designed as a text for the undergraduate students of all branches of engineering, this compendium gives an opportunity to learn and apply the popular drafting software AutoCAD in designing projects. The textbook is organized in three comprehensive parts. Part I (AutoCAD) deals with the basic commands of AutoCAD, a popular drafting software used by engineers and architects. Part II (Projection Techniques) contains various projection techniques used in engineering for technical drawings. These techniques have been explained with a number of line diagrams to make them simple to the students. Part III (Descriptive Geometry), mainly deals with 3-D objects that require imagination. The accompanying CD contains the animations using creative multimedia and PowerPoint presentations for all chapters. In a nutshell, this textbook will help students maintain their cutting edge in the professional job market. **KEY FEATURES :** Explains fundamentals of imagination skill in generic and basic forms to crystallize concepts. Includes chapters on aspects of technical drawing and AutoCAD as a tool. Treats problems in the third angle as well as first angle methods of projection in line with the revised code of Indian Standard Code of Practice for General Drawing. This senior undergraduate level textbook is written for Advanced Manufacturing, Additive Manufacturing, as well as CAD/CAM courses. Its goal is to assist students in colleges and universities, designers, engineers, and professionals interested in using SolidWorks as the design and 3D printing tool for emerging manufacturing technology for practical applications. This textbook will bring a new dimension to SolidWorks by introducing readers to the role of SolidWorks in the relatively new manufacturing paradigm shift, known as 3D-Printing which is based on Additive Manufacturing (AM) technology. This new textbook: Features modeling of complex parts and surfaces Provides a step-by-step tutorial type approach with pictures showing how to model using SolidWorks Offers a user-Friendly approach for the design of parts, assemblies, and drawings, motion-analysis, and FEA topics Includes clarification of connections between SolidWorks and 3D-Printing based on Additive Manufacturing Discusses a clear presentation of Additive Manufacturing for Designers using SolidWorks CAD software "Introduction to SolidWorks: A Comprehensive Guide with Applications in 3D Printing" is written using a hands-on approach which includes a significant number of pictorial descriptions of the steps that a student should follow to model parts, assemble parts, and produce drawings. Engineering Drawing is a textbook designed for the students of all engineering disciplines to develop a spatial bent of mind to observe, visualize, and understand the structure of objects from different perspectives. This ability forms the central idea of design and development of all engineering products. Beginning with the basics, such as BIS conventions, geometrical constructions, and scales, the book presents a detailed chapter on Visualization Concepts and Freehand Sketching, which lays the foundation to understand the subsequent chapters on orthographic projections, projection of points, lines, planes, and solids. These chapters ease the complexity of understanding further chapters such as intersection of solids, surfaces, and development of surfaces. The last few chapters discuss isometric projections, transformation of projections, perspective projections, and finally computer-aided drafting that briefs the reader about the utility of AutoCAD 2015 tools in drawing. The book provides a number of example problems, step-by-step procedure for solutions, numerous graded practice exercises, and multiple-choice questions. This book is intended for those who have mastered the fundamental concepts of GD&T. It takes an in-depth look at position, profile, and datums. There are three chapters devoted to non-rigid parts. Additional topics include form control applications, datum applications, relating tolerances to loss function curves, functional dimensioning, and tolerancing threaded holes.

Structure and Properties of High-Performance Fibers explores the relationship between the structure and properties of a wide range of high-performance fibers. Part I covers high-performance inorganic fibers, including glasses and ceramics, plus carbon fibers of various types. In Part II, high-performance synthetic polymer fibers are discussed, while Part III reviews those natural fibers that can be used to create advanced textiles. The high-performance properties of these fibers are related to their chemistry and morphology, as well as the ways in which they are synthesized and spun. High-performance fibers form the basis of textile materials with applications in protection, medicine, and composite reinforcement. Fibers are selected for these technical applications due to their advanced physical, mechanical, and chemical properties. Offers up-to-date coverage of new and advanced materials for the fiber and textile industries Reviews structure-property relationships of high-performance inorganic, carbon, synthetic polymer, and natural fibers Includes contributions from an international team of authors edited by an expert in the field Reviews those natural fibers that can be used to create advanced textiles Basic Civil Engineering is designed to enrich the preliminary conceptual knowledge about civil engineering to the students of non-civil branches of engineering. The coverage includes materials for construction, building construction, basic surveying and other major topics like environmental engineering, geo-technical engineering, transport traffic and urban engineering, irrigation & water supply engineering and CAD.

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