

Engineering Drawing 1st Year

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

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.

What kind of architectural knowledge was cultivated through drawings, models, design-build experimental houses and learning environments in the 20th century? And, did new teaching techniques and tools foster pedagogical, institutional and even cultural renewal? Architectural Education Through Materiality: Pedagogies of 20th Century Design brings together a collection of illustrated essays dedicated to exploring the complex processes that transformed architecture's pedagogies in the 20th century. The last decade has seen a substantial increase in interest in the history of architectural education. This book widens the geographical scope beyond local school histories and sets out to discover the

very distinct materialities and technologies of schooling as active agents in the making of architectural schools. *Architectural Education Through Materiality* argues that knowledge transmission cannot be reduced to 'software', the relatively easily detectable ideas in course notes and handbooks, but also has to be studied in close relation to the 'hardware' of, for instance, wall pictures, textiles, campus designs, slide projectors and even bodies. Presenting illustrated case studies of works by architects, educators and theorists including Dalibor Vesely, Dom Hans van der Laan, the Global Tools group Heinrich Wölfflin, Alfons Hoppenbrouwers, Joseph Rykwert, Pancho Guedes and Robert Cummings, and focusing on student-led educational initiatives in Europe, the UK, North America and Australia, the book will inspire students, educators and professionals with an interest in the many ways architectural knowledge is produced and taught.

For all students and lecturers of basic engineering and technical drawing *The new edition of this successful text describes all the geometric instructions and engineering drawing information, likely to be needed by anyone preparing or interpreting drawings or designs. There are also plenty of exercises to practise these principles.*

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.

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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.

Engineering Drawing, 2e continues to cover all the fundamental topics of the field, while maintaining its unique focus on the logic behind each concept and method. Based on extensive market research and reviews of the first edition, this edition includes a new chapter on scales, the latest version of AutoCAD, and new pedagogy. The coverage of topics has been made more clear and concise through over 300 solved examples and exercises, with new problems added to help students work progressively through them. Combining technical accuracy

with readable explanations, this book will be invaluable to both first-year undergraduate engineering students as well as those preparing for professional exams.

This self-contained comprehensive book has been written to cover almost all important topics on engineering drawing to introduce polytechnic and undergraduate students of engineering to the standards and convention of technical drawing. Initial chapters of the book cover basics of line work, engineering scales, engineering curves and dimensioning practices. In the next stage, fundamental principles of projection are discussed in detail. Subsequent chapters cover topics on orthographic projections of points, lines, planes and solids. First-angle projections have been adopted throughout the chapters covering orthographic projection. With a strong emphasis on creating accurate and clear drawings, a chapter on AutoCAD software is also included in the book. The chapter is organized such that it describes the application of the software presenting and applying these standards. More importantly, all the elaborations of the software are alone making use of screen captures taken from the AutoCAD screen so that a novice user will be able to understand its application easily. A large number of solved examples with detailed steps examining methods for solving them have been incorporated to help students solve the unsolved

problems.

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.

Fixing American Politics: Solutions for the Media Age brings together original chapters from 34 noted scholars from two disciplines – political science and communication – asked to identify the most pressing problems facing the American people and how they can be solved. Authors address the questions succinctly and directly, with their favored solutions featured in chapter titles that exhort and inspire. The book gives the reader much to think about and debate. Should news outlets be funded with public money rather than by private enterprise? Are the new social media a boon or a bane to political elections? Is the American past dead, or is it living once again? Do churchgoers and environmentalists have anything to discuss? Is the FCC doing its job? Can

political ads be made less toxic? Should Fox News be "cancelled?" Should cancel cultures be cancelled? Can we become more civil to one another and, if so, how? Fixing American Politics poses all the best questions ... and offers some concrete answers as well. This book is perfect for students, citizens, the media, and anyone concerned with contemporary challenges to civic life and discourse today.

The new book Fundamentals of Engineering Drawing for polytechnics. For 1 yr polytechnic students of all states of India. In accordance with the Bureau of Indian Standards (BIS) SP :46-1988 and IS :696-1972. Simple and Lucid Language with systematic development of subject matter. More than 2000 illustrations were given with proper explanation.

The subject 'Technical Drawing' has been introduced in the 1st semester of all branches in state polytechnics under the West Bengal State Council of Technical Education with modifications as per model syllabus issued by the All India Council for Technical Education with effect from 2013-2014 session. The conventions used in this book are as per BIS-SP-46-1988. This book has been written according the new syllabus framed by the West Bengal State Council of Technical Education for Diploma (Engineering & Technology) level. It covers all the features of the entire syllabus of 'Technical Drawing'. SALIENT FEATURES •

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All problems are explained in details • Examples are given on each topic along with drawings • All drawings are made using AutoCAD software • Short questions and answers are given to facilitate understanding • Exercises included on each topic

Basic Engineering Drawing will provide an ideal 'lead-in' and accompaniment to Computer Aided Design, as virtually all of the exercises can be transferred to the screen. The rules of engineering drawing are the same at whatever level they are used and this book will be suitable for a range of courses from GCSE Craft Design and Technology through CGLI ad BTEC to Degree (especially where students need to acquire a knowledge quickly). Excellent for self-study, many of the exercises can be completed by tracing which will improve the students' sketching skills.

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.

Vols. for 1866-70 include Proceedings of the American Normal School Association; 1866-69 include Proceedings of the National Association of School Superintendents; 1870 includes Addresses and journal of proceedings of the Central College Association.

Offshore Pipelines covers the full scope of pipeline development from pipeline designing, installing, and testing to operating. It gathers the authors' experiences gained through years of designing, installing, testing, and operating submarine pipelines. The aim is to provide engineers and management personnel a guideline to achieve cost-effective management in their offshore and deepwater pipeline development and operations. The book is organized into three parts. Part I presents design practices used in developing submarine oil and gas pipelines and risers. Contents of this part include selection of pipe size, coating, and insulation. Part II provides guidelines for pipeline installations. It focuses on controlling bending stresses and pipe stability during laying pipelines. Part III deals with problems that occur during pipeline

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operations. Topics covered include pipeline testing and commissioning, flow assurance engineering, and pigging operations. This book is written primarily for new and experienced engineers and management personnel who work on oil and gas pipelines in offshore and deepwater. It can also be used as a reference for college students of undergraduate and graduate levels in Ocean Engineering, Mechanical Engineering, and Petroleum Engineering. * Pipeline design engineers will learn how to design low-cost pipelines allowing long-term operability and safety. * Pipeline operation engineers and management personnel will learn how to operate their pipeline systems in a cost effective manner. * Deepwater pipelining is a new technology developed in the past ten years and growing quickly.

Engineering Drawing with CAD Applications is ideal for any engineering student, needing a user-friendly step-by-step guide to draughting, sketching and drawing. Fully revised to take into account developments in computer aided drawing, and to keep up with British Standards, this guide remains an ideal introduction to the subject. It provides readers with the basic knowledge and skills of draughting and takes them on to more interesting and advanced engineering drawing techniques and procedures. This latest revision of Ostrowsky's popular Engineering Drawing represents a comprehensive introductory course in engineering drawing and sketching, and is suitable for a wide range of college and university engineering students. The author concentrates on the techniques fundamental to effective drawing, key knowledge that is needed whether the drawings are carried out by hand, or via a CAD package. Copious illustrations and a clear, step-by-step approach make this book ideal for distance learning and assignment-based study.

NEW YORK TIMES BESTSELLER - Thought leader, visionary, philanthropist, mystic, and yogi

Sadhguru presents Western readers with a time-tested path to achieving absolute well-being: the classical science of yoga. NAMED ONE OF THE TEN BEST BOOKS OF THE YEAR BY SPIRITUALITY & HEALTH The practice of hatha yoga, as we commonly know it, is but one of eight branches of the body of knowledge that is yoga. In fact, yoga is a sophisticated system of self-empowerment that is capable of harnessing and activating inner energies in such a way that your body and mind function at their optimal capacity. It is a means to create inner situations exactly the way you want them, turning you into the architect of your own joy. A yogi lives life in this expansive state, and in this transformative book Sadhguru tells the story of his own awakening, from a boy with an unusual affinity for the natural world to a young daredevil who crossed the Indian continent on his motorcycle. He relates the moment of his enlightenment on a mountaintop in southern India, where time stood still and he emerged radically changed. Today, as the founder of Isha, an organization devoted to humanitarian causes, he lights the path for millions. The term guru, he notes, means "dispeller of darkness, someone who opens the door for you. . . . As a guru, I have no doctrine to teach, no philosophy to impart, no belief to propagate. And that is because the only solution for all the ills that plague humanity is self-transformation. Self-transformation means that nothing of the old remains. It is a dimensional shift in the way you perceive and experience life." The wisdom distilled in this accessible, profound, and engaging book offers readers time-tested tools that are fresh, alive, and radiantly new. Inner Engineering presents a revolutionary way of thinking about our agency and our humanity and the opportunity to achieve nothing less than a life of joy. Praise for Sadhguru and Inner Engineering "Contrarian and consistent, ancient and contemporary, Inner Engineering is a loving invitation to live our best lives and a profound

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reassurance of why and how we can."--Sir Ken Robinson, author of *The Element*, *Finding Your Element*, and *Out of Our Minds: Learning to Be Creative* "I am inspired by Sadhguru's capacity for joy, his exuberance for life, and the depth and breadth of his curiosity and knowledge. His book is filled with moments of wonder, awe, and intellectual challenge. I highly recommend it for anyone interested in self-transformation."--Mark Hyman, M.D., director, Cleveland Clinic Center for Functional Medicine, and New York Times bestselling author "Inner Engineering is a fascinating read of Sadhguru's insights and his teachings. If you are ready, it is a tool to help awaken your own inner intelligence, the ultimate and supreme genius that mirrors the wisdom of the cosmos."--Deepak Chopra

Electrical Drawing Is An Important Engineering Subject Taught To Electrical/Electronics Engineering Students Both At Degree And Diploma Level Institutions. The Course Content Generally Covers Assembly And Working Drawings Of Electrical Machines And Machine Parts, Drawing Of Electrical Circuits, Instruments And Components. The Contents Of This Book Have Been Prepared By Consulting The Syllabus Of Various State Boards Of Technical Education As Also Of Different Engineering Colleges. This Book Has Nine Chapters. Chapter I Provides Latest Informations About Drawing Sheets, Lettering, Dimensioning, Method Of Projections, Sectional Views Including Assembly And Working Drawings Of Simple Electrical And Mechanical Items With Plenty Of Solved Examples. The Second Chapter Deals With Drawing Of Commonly Used Electrical Instruments, Their Method Of Connection And Of Instrument Parts. Chapter Iii Deals With Mechanical Drawings Of Electrical Machines And Machine Parts. The Details Include Drawings Of D.C. Machines, Induction Machines, Synchronous Machines, Fractional Kw Motors And Transformers. Chapter Iv Includes Panel Board Wiring Diagrams.

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The Fifth Chapter Is Devoted To Winding Diagrams Of D.C. And A.C. Machines. Chapter Vi And Vii Include Drawings Of Transmission And Distribution Line Accessories, Supports, Etc. As Also Plant And Substation Layout Diagrams. Miscellaneous Drawing Like Drawings Of Earth Electrodes, Circuit Breakers, Lighting Arresters, Etc. Have Been Dealt With In Chapter Viii. Graded Exercises With Feedback On Reading And Interpreting Engineering Drawings Covering The Entire Course Content Have Been Included In Ix Providing Ample Opportunities To The Learner To Practice On Such Graded Exercises And Receive Feedback. Chapter X Includes Drawings Of Electronic Circuits And Components. This Book, Unlike Some Of The Available Books In The Market, Contains A Large Number Of Solved Examples Which Would Help Students Understand The Subject Better. Explanations Are Very Simple And Easy To Understand. Reference To Norms And Standards Have Been Made At Appropriate Places. Students Will Find This Book Useful Not Only For Passing Examinations But Even More In Reading And Interpreting Engineering Drawings During Their Professional Career.

Drawing on unique longitudinal community-level data in Brisbane, this book entwines current ecological theories of crime with key debates on the relevance of 'community' in contemporary urban life to examine the spatial and temporal relationships between community structure, community social capital, informal social control and the occurrence of crime and disorder. *Crime and Disorder in Community Context* extends what is known about the concentration of crime in particular types of places, presenting a broad reaching explication of how community structural characteristics, community regulatory processes and crime influence each other over time. It looks at how growing levels of ethnic diversity, income inequality and increasing immigrant concentrations at the community level influence processes necessary for

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the regulation of crime; the crime control processes for various crime problems in different types of communities; the extent that exogenous shocks, like the 2011 Brisbane flood disaster and the global financial crisis impact on crime, crime prevention and crime control; and engages readers with the methodological complexities associated with the longitudinal study of crime and disorder in contemporary urban communities. An accessible and compelling read, this will appeal to students and scholars of criminology, sociology, geography, cultural studies and all those interested in the relationship between crime and community.

this book includes Geometrical Drawing & Computer Aided Drafting in First Angle Projection. Useful for the students of B.E./B.Tech for different Technological Universities of India. Covers all the topics of engineering drawing with simple explanation.

The Internationalization of the Academic Library presents a theoretically informed, empirically grounded analysis of the process of academic library internationalization. Drawing on interviews with library personnel from around the world, Lombard analyzes internationalization at the departmental level of an academic library. Demonstrating that college and library personnel have positive intentions when it comes to internationalization, the research presented nevertheless reveals that there was little commitment to an intentional, holistic role in the libraries studied. Drawing on internationalization expertise and models of prominent scholars, the book argues that libraries need to be more deliberate in their internationalization efforts and collaborate with other college personnel and departments outside the library. Lombard asserts that internationalization can facilitate a better understanding of the potential for transformation of the library's mission, vision, and policy. This book cuts across the fields of library science and higher education administration, ensuring that the book will appeal to

researchers and students working in these disciplines. Library professionals around the world will also find much to interest them within the book.

Improbasen is a Norwegian private learning centre that offers beginner's instrumental tuition within jazz improvisation for children between the ages of 7 and 15. This book springs out of a two-year ethnographic study of the teaching and learning activity at Improbasen, highlighting features from the micro-interactions within the lessons, the organisation of Improbasen, and its international activity. Music teachers, students, and scholars within music education as well as jazz research will benefit from the perspectives presented in the book, which shows how children systematically acquire tools for improvisation and shared codes for interplay. Through a process of guided participation in jazz culture, even very young children are empowered to take part in a global, creative musical practice with improvisation as an educational core. This book critically engages in current discussions about jazz pedagogy, inclusion and gender equity, beginning instrumental tuition, creativity, and authenticity in childhood.

The primary objective of this book is to provide an easy approach to the basic principles of Engineering Drawing, which is one of the core subjects for undergraduate students in all branches of engineering. Further, it offers comprehensive coverage of topics required for a first course in this subject, based on the author's years of experience in teaching this subject.

Emphasis is placed on the precise and logical presentation of the concepts and principles that are essential to understanding the subject. The methods presented help students to grasp the fundamentals more easily. In addition, the book highlights essential problem-solving strategies and features both solved examples and multiple-choice questions to test their comprehension. This book investigates the devastating impacts of the Boko Haram terrorist campaign in

Nigeria, reflecting on the group's historical context, organizational dynamics, and emerging trajectories. Since its inception in 2002, Boko Haram's terrorist campaign has become one of the major threats to security and human development in West Africa, killing tens of thousands of people, and displacing many more. This book reflects on the origins and development of Boko Haram, contextualizing it in the global trend of militant Islamist movements. It delves into the tactics of the organisation, their deployment of sexual and gender-based violence against women and human rights abuses in the war against them. The war against Boko Haram has seen engagement from the international community, national and regional military operations, and also a range of civilian-led movements. This book reflects on the roles of these different actors, and the emerging trajectories that need to be considered in order to eradicate Boko Haram. Drawing on a range of disciplinary perspectives, this book will be of interest to researchers across the fields of sociology, political science, African studies, and peace and conflict studies.

The processes of manufacture and assembly are based on the communication of engineering information via drawing. These drawings follow rules laid down in national and international standards. The organisation responsible for the international rules is the International Standards Organisation (ISO). There are hundreds of ISO standards on engineering drawing because drawing is very complicated and accurate transfer of information must be guaranteed. The information contained in an engineering drawing is a legal specification, which contractor and sub-contractor agree to in a binding contract. The ISO standards are designed to be independent of any one language and thus much symbology is used to overcome any reliance on any language. Companies can only operate efficiently if they can guarantee the correct

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transmission of engineering design information for manufacturing and assembly. This book is a short introduction to the subject of engineering drawing for manufacture. It should be noted that standards are updated on a 5-year rolling programme and therefore students of engineering drawing need to be aware of the latest standards. This book is unique in that it introduces the subject of engineering drawing in the context of standards.

This book looks at the media's coverage of climate change and investigates its role in representing the complex realities of climate uncertainties and its effects on communities and the environment. The book explores the socio-economic and cultural understanding of climate issues, the influence of environment communication via the news and the public response to it. It also examines the position of the media as facilitator between scientists, policy makers and the public. Drawing extensively from case studies, personal interviews, comparative analysis of international climate coverage, and a close reading of newspaper reports and archives, the author studies the pattern and frequency of climate coverage in the Indian media and their outcomes. With a special focus on the Western Ghats, the book also discusses political rhetoric, policy parameters and events which trigger a debate about development over biodiversity crisis and environmental risks in India. This book will be of great interest to scholars and researchers of environmental studies, especially climate change, media studies, public policy and South Asian studies as well as a conscientious citizen who deeply cares for the environment.

Textbook of Engineering Drawing

This work explains the principles and construction of Engineering Graphics. New conventions of designating the planes, ground lines, and projections on planes have been introduced to

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avoid confusion when a number of planes are involved. A new chapter on Intersection of Surfaces is included.

This book provides a detailed study of geometrical drawing through simple and well-explained worked-out examples and exercises. This book is designed for students of first year Engineering Diploma course, irrespective of their branches of study. The book is divided into seven modules. 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 their different sections 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. The fundamentals of machine drawing are covered in Module F. 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 Polytechnic questions and answers to explain the geometrical drawing process. Contains chapter-end exercises to help students develop their drawing skills.

Engineering Graphics, in its 13th year, has been succinctly revised for the Engineering students of 1st year of Gujarat Technological University, Ahmedabad. Beginning with the units, dimensions and standard, this book discusses the measurement and measurement errors. Then, it goes on to discuss electronics equipment, measurements of low resistance and A.C.

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bridges. Moreover, the book deals with the cathode ray oscilloscopes. Further, it describes various instrument calibration. Finally, the book deals with recorders and plotters.

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.

Engineering Drawing From First Principles is a guide to good draughting for students of engineering who need to learn how to produce technically accurate and detailed designs to British and International Standards. Written by Dennis Maguire, an experienced author and City and Guilds chief examiner, this text is designed for use on Further Education and University courses where a basic understanding of draughtsmanship and CAD is necessary. Although not written as an AutoCAD tutor, the book will be a useful introduction to good CAD

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practice. Part of the Revision and Self-Assessment series, 'Engineering Drawing From First Principles' is ideal for the student working alone. More than just a series of tests, the book helps assess current understanding, diagnose areas of weakness and directs the student to further help and guidance. This is a self-contained text, but it will also work well in conjunction with the highly successful 'Manual of Engineering Drawing', by Simmons and Maguire. Can be used with AutoCAD or AutoCAD LT Provides typical exam questions and carefully described worked solutions Allows students to work alone

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