

## ***Engineering Drawing By Basant Agrawal Free***

*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.*

*Engineering Drawing is a compulsory subject for all branches of engineering as it is the graphical language of 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. This book has been recommended as Text/Reference book by the following universities: (i) VTU Karnataka; (ii) Mechanical Diploma course Karnataka; (iii) JNTU Hyderabad; (iv) JNTU Kakinada; (v) UP Technological University Lucknow; (vi) Nagpur Technological University Nagpur; (vii) Gujarat Technological University Gujarat*

*Key Features:*

- \* Use of updated BIS 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 wherever necessary.*

*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.*

*Engineering Chemistry*

*Revised Edition*

### **ENGINEERING GRAPHICS WITH AUTOCAD**

*This is a completely revised book in line with 'Outcome Based Education (OBE)' that is currently being followed by most universities. Also, the engineering drawings in the book have been prepared using the latest version of AutoCAD. The book has all the assessment tools like assessment exercise, short answer questions with answers, fill in the blanks and multiple choice questions (MCQs). A special feature of this book is that free downloads of (i) additional learning material, (ii) PowerPoint presentations and (iii) video lectures are available on the author's website [www.EGlive.in](http://www.EGlive.in).*

*Beginning with an overview of the basic concepts of computers, the book provides an exhaustive coverage of C programming constructs. It then focuses on arrays, strings, functions, pointers, user-defined data types, and files. In addition, the book also provides a chapter on linked lists - a popular data structure - and different operations that can be performed on such lists. Students will find this book an excellent companion for self-study owing to its easy-to-understand approach with plenty of programs complete with source codes, sample outputs, and test cases.*

*For children from age 8 to 14. "Drawings from Angola" present an introduction to an African story telling tradition. The tales are illustrated with marvelous drawings made in the sand. The book conveys the stories of the stork and the leopard, the hunter and the dog, the rooster and the fox, and others. It explains how to execute the drawings. The reader is invited to draw tortoises, antelopes, lions, and other animals. The activities proposed throughout the book invite the reader to experiment and to explore the 'rhythm' and symmetry of the illustrations. Surprising results will be playfully obtained, such as in arithmetic, a way to calculate quickly the sum of a sequence of odd numbers. Children will live the beautiful mathematics of the Angolan sanddrawings. Answers to the activities are provided. The book can be used both in classrooms and at home.*

*Engineering Mathematics*

*Engineering Drawing And Graphics*

*Engg Drawing*

*Programming in C*

**This book was designed to help students acquire requisite knowledge and practical skills in technical drawing presentation and practices. The contents were scripted to prepare students for technical, diploma and degree examinations in engineering technology, technical vocations and draughtsmanship in other professions in the monotronics, polytechnics and universities. At**

**the end of each chapter are lists of examination standard exercises that will help students perfect their skill and proficiency in technical drawing works. Therefore, student should be able to; Understand the principles and techniques of drawing presentation and projections in geometry Understand the applications of solid geometry Understand the principles and application of free hand sketching Understand the principles of constructing conic-sections and development of surfaces**

**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.**

**This book is also available through the Introductory Engineering Custom Publishing System. If you are interested in creating a course-pack that includes chapters from this book, you can get further information by calling 212-850-6272 or sending email inquiries to [engineer@jwiley.com](mailto:engineer@jwiley.com). Examines the roots of engineering through its modern development. Describes functions and career paths for various branches of engineering, professional responsibilities, ethics, purpose and importance of engineering**

**societies. Discusses engineering design methods along with techniques commonly used to solve problems. Provides recommended procedures for handling engineering data. Includes two case studies, one of which deals with the circumstances and events leading to the space shuttle Challenger accident.**

**Fundamentals and Applications**

**Foundation Analysis and Design**

**Problem series 3**

**Elements of Mechanical Engineering**

Basics of Mechanical Engineering systematically develops the concepts and principles essential for understanding engineering thermodynamics, mechanics and strength of materials. This book is meant for first year B. Tech students of various technical universities. It will also be helpful for candidates preparing for various competitive examinations.

Special Features: · Simple language, point-wise descriptions in easy steps.· Chapter organization in exact agreement with sequence of syllabus.· Simple line diagrams.· Concepts supported by ample number of solved examples and illustrations.· Pedagogy in tune with examination pattern of RGTU.· Large number of Practice problems.· Model Question Papers About The Book: This book is designed to suit the core engineering course on basic mechanical engineering offered to first year students of all engineering colleges in Madhya Pradesh. This book meets the syllabus requirements of Basic Mechanical Engineering and has been written for the first year students (all branches) of BE Degree course of RGPV Bhopal affiliated Engineering Institutes. A number of

illustrations have been used to explain and clarify the subject matter. Numerous solved examples are presented to make understanding the content of the book easy. Objective type questions have been provided at the end of each chapter to help the students to quickly review the concepts.

This book is meant for the Engineering Drawing course offered to the students of all engineering disciplines in their first year. An important highlight of this book is the inclusion of practical hints along with theory which would enable the students to make perfect drawings.

Machine Drawing

Drawings from Angola

A Textbook of Engineering Physics

Engineering Drawing

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.

Computer Fundamentals and Programming in C is designed to serve as a textbook for the undergraduate students of engineering, computer science, computer applications, and information technology. The book seeks to provide a thorough overview of all the fundamental concepts related to computer science and programming. It lays down the foundation for all the advanced courses that a student is expected to learn in the following semesters.

Engineering Drawing Basic Mechanical Engineering John Wiley & Sons

A Text Book of Engineering Drawing

Computer Aided Engineering Drawing (As Per the Latest BIS Standards Sp 46-2003)

Engineering Fluid Dynamics 2018

Differential Calculus

**This book is intended to serve as a textbook of Applied Physics / Physics paper of the undergraduate students of B.E., B.Tech and B.Sc. Exhaustive treatment of topics in optics, mechanics, relativistic mechanics, laser, optical fibres and holography have been included. Physics is best learnt by conceptualization of the involved principles and to help the students conceptualize the involved**



principles, the text has been presented in an easy to understand manner. Large number of solved numericals have been included in the book to give a quantitative idea of the subject. Exercises and unsolved numericals have been given at the end of each chapter for practice. The book will also be useful for the students taking various competitive examinations.

A Textbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

The revision of this best-selling text for a junior/senior course in Foundation Analysis and Design now includes an IBM computer disk containing 16 compiled programs together with the data sets used to produce the output sheets, as well as new material on sloping ground, pile and pile group analysis, and procedures for an improved analysis of lateral piles. Bearing capacity analysis has been substantially revised for footings with horizontal as well as vertical loads. Footing design for overturning now incorporates the use of the same uniform linear pressure concept used in ascertaining the bearing capacity. Increased emphasis is placed on geotextiles for retaining walls and soil nailing.

**Living Mathematics**  
**Technical Drawing**  
**Fundamentals of Engineering Drawing**  
**Introduction to Engineering**

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.

Any good text book, particularly that in the fast changing fields such as engineering & technology, is not only expected to cater to the current curricular requirements of various institutions but also should provide a glimpse towards the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum.

Basic Mechanical Engineering is written by senior professors. The course is offered to the B.Tech students during first / second semester. The book covers syllabi of majority of Technological Universities. Introduces various units in SI system related to thermal engineering. Fuels used in engines and combustion of fuels are described.

Basic Electrical Engineering

Computer Fundamentals & Programming in C

Advanced Engineering Mathematics, 22e

## Building Integrated Photovoltaic Thermal Systems

"Engineering Fluid Dynamics 2018". The topic of engineering fluid dynamics includes both experimental as well as computational studies. Of special interest were submissions from the fields of mechanical, chemical, marine, safety, and energy engineering. We welcomed both original research articles as well as review articles. After one year, 28 papers were submitted and 14 were accepted for publication. The average processing time was 37.91 days. The authors had the following geographical distribution: China (9); Korea (3); Spain (1); and India (1). Papers covered a wide range of topics, including analysis of fans, turbines, fires in tunnels, vortex generators, deep sea mining, as well as pumps.

Solar photovoltaics is one of the most promising renewable energy technologies producing electricity on site directly from the solar radiation without harming the environment and depletion of materials. The Building Integrated Photovoltaic Thermal (BIPVT) system is a technology which merges PV and thermal systems, simultaneously providing both electric and thermal energy. Through this combination more energy is generated per unit surface area in comparison to the standalone photovoltaics system. Benefits of the BIPVT system include significantly increased electrical performance, faster payback than traditional systems, negligible impact on the environment and the product is easier and less

expensive to install with low maintenance required. This book describes the recent developments in PV technologies, solar radiation available on the earth, various BIPVT systems and their applications, energy and exergy analysis, carbondioxide migration and credit earned, life cycle cost analysis and life cycle conversion efficiency. Presently there is no single book which covers all the basic and the advanced concepts related to the implementation of solar energy for the passive heating and cooling of the building. In addition to the basic concepts, the book includes the technology advances, modelling and analysis and ongoing research in the area of BIPVT. Key features of book include: -Solar heating and cooling concepts -Thermal comfort -Performance analysis of BIPVT system -Worldwide case studies -Energy payback period -Techno-economics and sustainability of the system The book, written by experts in the field with years research and teaching, is intended for the specialists, scientists and people involved in research in the disciplines of renewable energy, energy studies, building energy or carbon credit. For the practicing professional, advanced senior or graduate student with work experience, the book should be used as part of an integrative program enabling them to make deep linkages and thus better decisions in the professional world.

"Advanced Engineering Mathematics" is written for the students of all engineering

disciplines. Topics such as Partial Differentiation, Differential Equations, Complex Numbers, Statistics, Probability, Fuzzy Sets and Linear Programming which are an important part of all major universities have been well-explained. Filled with examples and in-text exercises, the book successfully helps the student to practice and retain the understanding of otherwise difficult concepts.

Natural Products

Presentation and Practice

Basics of Mechanical Engineering

Basic Mechanical Engineering (Fe Sem. I, Su)

***Engineering Mathematics-II***

***Basic Mechanical Engineering covers a wide range of topics and engineering concepts that are required to be learnt as in any undergraduate engineering course. Divided into three parts, this book lays emphasis on explaining the logic and physics of critical problems to develop analytical skills in students.***

***Written in lucid language, the book offers a detailed treatment of fundamental concepts of chemistry and its engineering applications.***

***ENGINEERING GRAPHICS FOR DEGREE***

***Basic Mechanical Engineering***

***A Textbook Of Applied Physics***

*Engineering Mathematics-II*

*Engineering Physics is designed as a textbook for first year undergraduate engineering students. The book comprehensively covers all relevant and important topics in a simple and lucid manner. It explains the principles as well as the applications of a given topic using numerous solved examples and self-explanatory figures.*

*This textbook commences with a brief outline of development of real numbers, their expression as infinite decimals and their representation by points along a line. While the first part of the textbook is analytical, the latter part deals with the geometrical applications of the subject. Numerous examples and exercises have been provided to support student's understanding. This textbook has been designed to meet the requirements of undergraduate students of BA and BSc courses.*

*This book is designed based on revised syllabus of Gujarat Technological University, Gujarat (AICTE model curriculum) for under-graduate (B.Tech/BE) students of all branches, those who study Basic Electrical Engineering as one of the subject in their curriculum. The primary goal of this book is to establish*

*a firm understanding of the basic laws of Electric Circuits, Network Theorems, Resonance, Three-phase circuits, Transformers, Electrical Machines and Electrical Installation.*

*Engineering Physics*

*A TEXTBOOK OF ENGINEERING CHEMISTRY*

*For Sustainable Developments*

*Engineering Graphics and Design*