



Artificial Intelligence & Data Science Engineering

Engineering Mathematics - IV

Mini Project Title: QUADRATIC FORMS

Semester IV

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CERTIFICATE

This is to certify that Mini project of Engineering Mathematics - 4 submitted by:

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Project Title: QUADRATIC FORMS

have satisfactorily completed the same as a partial fulfilment of the Project work for the S. E. ARTIFICIAL INTELLIGENCE AND DATA SCIENCE degree as specified by UNIVERSITY OF MUMBAI during semester IV of the ACADEMIC YEAR – 2023-2024

Subject In-charge

Head of the Department

Principal

Konkan Gyanpeeth College of Engineering, Karjat

Department of Artificial Intelligence & Data Science

Quadratic Forms

Presenters:-

Engineering Graphics And Machine Drawing Konkan Gyanpeeth

S. Bogoliubov,A. Voinov



Engineering Graphics And Machine Drawing Konkan Gyanpeeth:

Engineering Drawing Sergey Bogolyubov, 1999 Textbook **Engineering Drawing** S.K. Bogoljubov, A. Voinov, 1986
Engineering Drawing Sergeij K. Bogoljubov, Aleksandr V. Voinov, 1983 *Engineering Drawing* S. Bogoliubov, A. Voinov, 1979 **A Textbook of Engineering Drawing** Shah P.J., Drafting Equipment Sheet Sizes Scales Lines and Lettering Scales Loci of Points Engineering Curves Projections Planes of Projections and Systems of Projections Orthographic Projections of Points Projections of Straight Lines Projections of Planes Projections of Point Line and Plane on Auxiliary Planes Projections of Solids Sections of Solids Development of Surfaces of Solids Interpenetration of Solids and Lines Curves of Penetration Orthographic Projections Sectional Orthographic Projections Orthographic Reading Isometric Projection View Drawing Axonometric Projection Detail and Assembly Drawings Dimensioning Limits Fits and Tolerances Fasteners Couplings Bearings AutoCAD *A Textbook of Engineering Drawing* RK Dhawan, 2019 Engineering Drawing completely covers the subject as per AICTE Pedagogically strong and designed for easy learning the text amplifies the learning of the student with close to 1300 figures and tables **TEXTBOOK OF MACHINE DRAWING** K. C. JOHN, 2009-04-13 This book provides a detailed study of technical drawing and machine design to acquaint students with the design drafting manufacture assembly of machines and their components The book explains the principles and methodology of converting three dimensional engineering objects into orthographic views drawn on two dimensional planes It describes various types of sectional views which are adopted in machine drawing as well as simple machine components such as keys cotters threaded fasteners pipe joints welded joints and riveted joints The book also illustrates the principles of limits fits and tolerances and discusses geometrical tolerances and surface textures with the help of worked out examples Besides it describes assembly methods and drafting of power transmission units and various mechanical machine parts of machine tools jigs and fixtures engines valves etc Finally the text introduces computer aided drafting CAD to give students a good start on professional drawing procedure using computer KEY FEATURES Follows the International Standard Organization ISO code of practice for drawing Includes a large number of dimensioned illustrations and worked out examples to explain the design and drafting process of various machines and their components Contains chapter end exercises to help students develop their design and drawing skills This book is designed for degree and diploma students of mechanical production automobile industrial and chemical engineering It is also useful for mechanical draftsmen and designers *The Fundamentals of Engineering Drawing and Graphic Technology* Thomas Ewing French, Charles J. Vierck, 1978 Attention to the metric system and a discussion of computer methods supplement a text covering all aspects of the graphics of engineering design and construction
Fundamentals of Engineering Drawing Warren Jacob Luzadder, 1986 This new edition highlights the intergration of computer graphics with conventional drawing For mechanical and civil engineers and all those interested in the fundamentals of engineering drawing **FUNDAMENTALS OF MACHINE DRAWING** SADHU SINGH, P. L. SAH, 2012-11-18

This richly illustrated textbook now in its Second Edition continues to provide a solid fundamental treatment of the essential concepts of machine drawing. The book is suitable for students pursuing courses in mechanical engineering and its related branches both at the undergraduate degree and diploma levels. The students are first introduced to the standards and conventions of basic engineering drawing. The machine elements such as fasteners, bearings, couplings, shafts and pulleys, pipes and pipe joints are discussed in depth before moving on to detailed drawings of components of steam engines, IC engines, boilers and machine tools. Gears are covered in a separate chapter. Finally, the book introduces the students to the principles of computer aided drafting and designing (CADD) to prepare them to use software tools effectively for the production of computerised accurate drawings. This Second Edition includes three new chapters namely Fits and Tolerances, Assembly Drawings and Freehand Sketching and a revamped chapter on Gears. Besides all the earlier chapters have been revised and enlarged with numerous new topics and worked out examples. Key Features: Provides first and third angle projections. Follows the standards set by the Bureau of Indian Standards as per IS 696:1972, SP 46:1988. Contains multiple choice questions and practice exercises. Engineering Graphics with an Introduction to AutoCAD Dr. A.R.

Bapat, 2004-02-14. Although the world of drawing has changed from graphite technology i.e. conventional pencils, drawing paper, instruments and associated skills to graphic technology i.e. computer assisted drawing and drafting, the basics of the subject are equally important in either of the approaches. The teaching learning process for engineering drawing calls for more imaginative thinking on the part of the student than may be needed for learning other subjects and ingenious ways for the teacher for communicating with the students so as to develop a scheme that enables a student to translate 3D visualization into a 2D graphic representation on a drawing in an easy manner. Learning engineering drawing is thus learning a new language for effective communication and uniform understanding between people dealing with physical objects. The book also includes a chapter on AutoCAD which will serve as a good course material to students and teachers of engineering drawing. The language used for presentation has been simple since the focus is the first year students just entering the engineering discipline. The CD enclosed with the book contains Power point presentations on Conversion of Orthographic view to Isometric and Conversion of Pictorial view to Orthographic Projections to facilitate students as well as the teachers.

Machine Drawing, for the Use of Engineering Students in Science and Technical Schools and Colleges T. Gilbert Jones, 1967 **Engineering Drawing and Graphics** K. Venugopal, 1992-01-01 **Machine Drawing for the Use of Engineering Students in Science and Technical Schools and Colleges** T. J. Jones, 1900 **A Textbook of Machine Drawing (In First Angle Projection) (Single Colour Edition)** R.K.Dhawan, A Textbook of Machine Drawing has been prepared to meet the requirements of the students preparing for B Sc Engineering, B E B Tech, A M I E India Diploma in Mechanical Engineering, Production Engineering, Automobile Engineering and Textile Engineering, I T I Draftsman Course in Mechanical Engineering, C T I and other Engineering Examinations **Engineering Drawing & Graphics Using Autocad,**

3rd Edition Jeyapoovan T., The study of engineering drawing builds the foundation of analytical capabilities for solving a wide variety of engineering problems and has real time applications in all branches of engineering Student friendly lucid and comprehensive this book adopts step by step instructions to explain and solve problems A major highlight of this book is that all the drawings are prepared using the latest AutoCAD software Fundamentals of Engineering Drawing Warren Jacob Luzadder, Jon M. Duff, 1993 Presents a solid treatment of engineering graphics geometry and modelling reflecting modern drafting procedures from the basics to specialized techniques This edition enhances understanding of graphics fundamentals in computer aided design to prepare students to use CAD software Machine Drawing T. Gilbert Jones, 1924

Engineering Drawing Basant Agrawal, 2014 **Mechanical Engineering Drawing** Dey, Sankar Prasad, The subject Mechanical Engineering Drawing has been introduced in 3rd semester for Mechanical engineering groups as per model syllabus issued by the All India Council for Technical Education with effect from 2011 for diploma level of engineering courses in India The conventions used in this book are as per BIS SP 46 1988 This book is written elaborately using simple words to realize every chapter even without help of a teacher Objects are shown in 3D model which helps the students about the object during drawing Assembled drawings are shown in half and full sections including offset section to visualize the interior of the object It covers all the features of the entire syllabus of Mechanical Engineering Drawing **KEY FEATURES** Convention used as per BIS SP 46 1988 All the problems are explained in details Example on every topic with drawings Assembly drawings with sectional views 3D model of all components All drawings are made using AutoCAD software

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