

Mechanical Cadd Centre Workbook

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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 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

this unit covers producing basic engineering drawings using a cad system to produce a basic engineering drawing consisting of 1 to 3 orthogonally projected views dimension and notations suitable to manufacture a component in the workplace this unit applies to the production of drawings according to defined parameters and predetermined specifications that include materials tolerances codes and other specifications all work is conducted under supervision standard cad software would be used including inbuilt file management macros and reports drawings include plans diagrams charts circuits systems or schematics a cd containing drawing templates is available by contacting blakline bigpond net au for 10 plus postage

cad cam

beginning autocad 2005 is a course based on learning and practising the essentials of 2d drawing using autocad bob mcfarlane s hands on approach is uniquely suited to independent learning and use on courses the focus on 2d drawing in one book ensures the reader gets a thorough grounding in the subject with a greater depth of coverage than tends to be available from general introductions to autocad as a result this book provides a true step by step detailed exploration of the autocad functions required at each stage of producing a 2d drawing an approach often not found in the many software reference guides available the emphasis on learning through doing makes this book ideal for anyone involved in engineering construction or architecture where the focus is on productivity and practical skills the author has also matched the coverage to the requirements of city and guilds edexcel btec and sqa syllabuses new features in autocad 2005 are covered in this book including drafting tools drawing management drawing output plot and publish tools productivity tools sheet set manager and tool palette enhancements the result is a useful refresher course for anyone using autocad at this level and those upgrading to the new software release the course is also designed to be fully relevant to anyone using other recent releases including autocad 2004 bob mcfarlane is curriculum manager for cad and new media at motherwell college scotland and an autodesk educational developer

the textbook provides both beginner and experienced cad users with the math behind the cad the geometry tools introduced here help the reader exploit commercial cad software to its fullest extent in fact the book enables the reader to go beyond what cad software packages offer in their menus chapter 1 summarizes the basic linear and vector algebra pertinent to vectors in 3d with some novelties the 2d form of the vector product and the manipulation of larger matrices and vectors by means of block partitioning of larger arrays in chapter 2 the relations among points lines and curves in the plane are revised accordingly the difference between curves representing functions and their geometric counterparts is emphasized geometric objects in 3d namely points planes lines and surfaces are the subject of chapter 3 of the latter only quadrics are studied to keep the discussion at an elementary level but the interested reader is guided to the literature on splines the concept of affine transformations at the core of cad software is introduced in chapter 4 which includes applications of these transformations to the synthesis of curves and surfaces

that would be extremely cumbersome to produce otherwise the book catering to various disciplines such as engineering graphic design animation and architecture is kept discipline independent while including examples of interest to the various disciplines furthermore the book can be an invaluable complement to undergraduate lectures on cad

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