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future computer aided design systems will themselves be designed using tools and methods that are still under development this book presents the latest progress in research on the tools and methods needed to develop those cad systems the topics covered include algorithmic aspects the product data and development process future cad architectures feature based modeling and automatic feature recognition complex surface design and system implementation issues the book contains contributions by the world s leading experts in the field of cad technology from both universities and industry the contributions are based on lectures given at the international conference and research center for computer science schloss dagstuhl germany

this is the ideal desktop reference for professional drafting engineers

this stellar new edition details step by step methods for the design and layout of each type of drawing required for a complete set of architectural plans this comprehensive handbook also contains a copy of the autocad 2000 direct to student software and dwg files of selected plans in the book supplemented by expanded coverage of cadd and freehand sketching techniques readers are challenged to think through and solve numerous design problems while adhering to the latest universal building code cabo and sbcci codes meeting requirements of the americans with disabilities act taking into account the latest nds wood design standards and considering the growing popularity of engineered lumber and steel construction

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

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

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