Computer Graphics for CAD/CAM Systems (Computer Aided Engineering)

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This reference and text provides a solid understanding of the internal functions of graphics-oriented CAD/CAM software and the methods used to develop it - emphasizing the mathematical and programming techniques necessary for describing geometric models and the organization of associated data. An IBM compatible disk containing the programs discussed - designed to be run on the QuickBASIC language with VGA graphics - that demonstrates how concepts are transformed into working computer software, is supplied.;Offering a range of programs and program segments, this title examines: computer graphic hardware as well as primitives, viewports, windows, graphs and charts; 2-D and 3-D transformations, free-form curves, and graphical databases; user interface techniques and animation; 3-D modelling, curves, surfaces and woeking planes; hidden line/surface removal; and CAD/CAM applications, including fininte element modelling and interfacing geometric data.;As a primary text in the classroom or for self-study, Computer Graphics for CAM/CAD Systems incorporates didactic features such as: a fully functional 2-D CAD program on the disk, complete with source codes, that can be used to instruct students on program writing; example programs that can be illustrated during lectures using the disk; end-of-chapter problems with selected answers; and a step-by-step methodology that progressively reinforces previously covered material.;This work is also intended as a reference for software, hardware, mechanical, manufacturing and design engineers working with CAD/CAM systems; operators and managers; draftspersons; and upper-level undergraduates and graduates in computer graphics, computer-aided engineering and computer-aided design.

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