

KNOW THE FUNDAMENTAL OF COMPUTER AIDED DESIGN AND COMPUTER AIDED MANUFACTURING (CAD/CAM)

1.1 Explain the history of CAD/CAM

The fate of the drafter, otherwise known as draftsmen or drafting technicians, provides an excellent example of how a discipline can change as technology evolves.

Before the 1960s, no manufacturing, architectural, or engineering firm was complete without a roomful of drafters concentrating over drawing boards. Their work was entirely manual, drawn with pens and pencils and employing compasses, protractors, and triangles to create highly detailed designs. The job of a drafter was to convert the preliminary sketches of other professionals (such as engineers) into technical drawings.

These highly standardized drawings remained unchanged for centuries – until the introduction of “computer-aided design” (CAD) revolutionized the approach in the second half of the 20th century.

The History of CAD

The phrase “computer-aided design” was coined by Douglas T. Ross, a researcher at MIT in the early 1950s who saw the potential in military radar technology to create designs on a computer display system. Separate research undertaken by Patrick Hanratty at the General Motors Research Laboratories saw the development of Design Automated by Computer (DAC), regarded as the [first CAD system](#) to use interactive graphics.

But the first true 3D CAD/CAM (computer-aided manufacturing) program was created between 1966 and 1968 by Pierre Bézier, an engineer at Renault. His UNISURF CAD system transformed design and manufacturing, moving the vehicle design process from manual drawing boards to computer-aided design. UNISURF is regarded as the original model for many generations of CAD programs.

The automation of design tools did not mean that drafters were replaced by coders, especially after the development of SKETCHPAD, a program written by MIT’s Ivan Sutherland in 1963. Instead, this software enabled drafters to feed their design into a computer by drawing with a light pen on a CRT monitor.

As computers became more affordable and shrank to the size of desktop PCs, the use of CAD/CAM spread beyond the automotive, aerospace, and electronics industries to enjoy near-universal usage. The 1970s and 1980s witnessed the emergence of 3D modeling and 3D designs, with programs including Romulus, Uni-Solid, CATIA, and the well-known AutoCAD system.

By this point, CAD/CAM was also being used to design industrial tools. Manufacturers valued CAM for its precision and ability to optimize the manufacturing process, decrease material waste, shorten turnaround times, and provide clear visualizations.

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CIM Systems Ferdinand Haverman Mitchell, 1991 Combining manufacturing systems with management techniques this integrated approach to designing and developing CIM systems provides a multi disciplinary system oriented background understanding of advanced manufacturing issues and strategies It also offers design methods that can be used to create competitive manufacturing systems The text s methods include assessing problems determining solution approaches and developing and integrating systems based on relevant engineering science and management disciplines Software is included for a simple system environment simulation SES model that illustrates the application of key concepts Real world application design models are applied to specific system examples The author discusses design principles within a comprehensive framework providing a context for understanding manufacturing operations and relationships Throughout the text the

integrated technical and management considerations aim to encourage effective CIM team management

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Fundamentals of Fighter Design Ray Whitford, 2000 This text traces the development of fighter plane design since World War I Each chapter focuses on an aspect of fighter technology chronologically tracing its progress Major design topics such as aerodynamics avionics armaments and tactics are all covered

Fundamentals Of Design And Manufacturing G. K. Lal, Nallagundla Venkata Reddy, Vijay Gupta (Professor.), 2005

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Data Mining VI A. Zanasi,C. A. Brebbia,Nelson F. F. Ebecken,2005 This book contains most of the papers presented at the Sixth International Conference on Data Mining held in Skiathos Greece Twenty five countries from all the continents are represented in the papers published in the book offering a real multinational and multicultural range of experiences and ideas

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