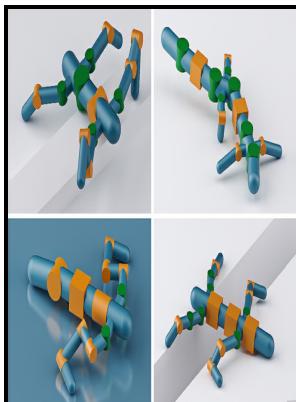


Impact of computer aided design on designers and the design process.

- - Advantages And Disadvantages of Using Computer Aided Design (CAD)



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Advantages And Disadvantages of Using Computer Aided Design (CAD)

Computer simulations put 3D models through a variety of real life situations --including high speeds, harsh weather, violent impact caused by accidents, even wear-and-tear -- to determine if a design is street-worthy. What might explain some of the differences is the amount of CAD experience including personal interaction style.

CAD/CAM

History of CAD The origins of CAD trace back to the early 60s and Patrick Hanratty and Ivan Sutherland. The slider-crank assembly shown in Figure 4.

THE IMPACT OF COMPUTER AIDED ARCHITECTURAL DESIGN PROGRAMS ON CONCEPTUAL DESIGN IN AN EDUCATIONAL CONTEXT

Designers have used CAD to help make cars safer, by using software tools to design and test seat belts, air bags, improved visibility, energy transfer and absorption, and vehicle control and handling, including anti-lock brakes. Everything that took so much trouble in the past now is solvable automatically in few steps. This restricts five DOFs on the relative movement of the parts—three translational and two rotational—which therefore allows only one rotational degree of freedom.

Advantages And Disadvantages of Using Computer Aided Design (CAD)

The program helps simplify the modeling of plant components, including piping and support structures.

Computer

They can include the size and location of ductwork, connections to control units, as well as the relationship and connections between various components. This is not to say that the tasks of the designer, builder or operator have been made easy.

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