CDS

Geometric Constraint Solver for 2D & 3D models

Constraint Design Solver (CDS) is a geometric constraint solver that enables optimal part and assembly design. Applications can leverage CDS for regenerating features by re-calculating the sketches and positioning components of an assembly.

COMPREHENSIVE FUNCTIONALITY

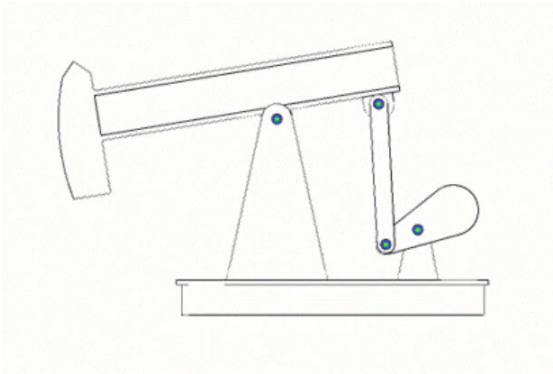
Constraint Design Solver (CDS) allows you to apply and preserve complex 2-D and 3-D geometric relationships enabling users to accurately simulate real world behavior. Enabling users to define systems with multiple geometric entities and many constraints between them, CDS will then solve these simultaneously providing a solution that satisfies all the constraints at the same time.

RAPID IMPLEMENTATION

Comprehensive interfaces with debugging features and real time feedback enable developers to quickly implement CDS in their applications.

REAL TIME INTERACTION

CDS enables applications to offer real-time manipulation of geometric objects with fast solvers that support interactive model modifications for constraints. If the system is not solvable, then CDS provides diagnostic information about constraints that conflict with each other.



DASSAULT SYSTEMES | The 3DEXPERIENCE® Company

Americas
Dassault Systèmes
175 Wyman Street
Waltham, Massachusetts
02451-1223
USA

Europe/Middle East/Africa
Dassault Systèmes
10, rue Marcel Dassault
CS 40501
78946 Vélizy-Villacoublay Cedex
France

Asia-Pacific
Dassault Systèmes K.K.
ThinkPark Tower
2-1-1 Osaki, Shinagawa-ku,
Tokyo 141-6020
Japan