



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.



Our **3D**EXPERIENCE® platform powers our brand applications, serving 11 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the **3DEXPERIENCE** Company, is a catalyst for human progress. We provide business and people with collaborative virtual environments to imagine sustainable innovations. By creating 'virtual experience twins' of the real world with our **3DEXPERIENCE** platform and applications, our customers push the boundaries of innovation, learning and production.



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