
Description:
CFD is a software application that helps end-users analyze the flow, turbulence, and pressure distribution of liquids and gases, and their interaction with structures. It also helps in predicting fluid flow, mass transfer, chemical reactions, and related phenomena. CFD uses high-speed computers, and various numerical methods and solvers to simulate the flow of fluids (gases and liquids). Simulation refers to the digital prototype of the real-world scenario. This helps detect errors in design before proceeding to production. CFD finds wide ranging applications in industries such as automotive, aerospace and defense, electrical and electronics, and energy. CFDs are used to design fuel systems, engine core compartments, cockpit and cabin ventilation, missiles, submarines, and evaluate aerodynamics in the aerospace and defense industry.

The report forecasts the global CFD market to grow at a CAGR of 13.6% over the period 2014-2019.

Covered in this report
Based on end-users, the global CFD market can be segmented into: aerospace and defense industry, automotive industry, electrical and electronics industry, industrial machinery industry, material and chemical processing industry, energy industry, and others.

The report, Global CFD Market 2015-2019, has been prepared based on an in-depth market analysis with inputs from industry experts. The report covers the Americas, APAC, and EMEA; it also covers the market landscape and its growth prospects in the coming years. The report also includes a discussion on the key vendors operating in this market.

Key regions
- Americas
- APAC
- EMEA

Key vendors
- ANSYS
- CD-adapco
- Dassault Systèmes
- EXA
- Mentor Graphics

Other prominent vendors
- Altair Engineering
- Autodesk
- CEI
- COMSOL
- ESI
- MSC Software
- NUMECA

Market drivers
- Availability of high performance computing systems
- For a full, detailed list, view the full report

Market challenges
- Inaccurate prediction of fluid flow behaviour for highly complex geometries
- For a full, detailed list, view the full report

Market trends
- Demand for application specific CFD
- For a full, detailed list, view the full report

Key questions answered in this report
- What will the market size be in 2019 and what will the growth rate be?
- What are the Key market trends?
- What is driving this market?
- What are the challenges to market growth?
- Who are the key vendors in this market space?
- What are the market opportunities and threats faced by the key vendors?
- What are the strengths and weaknesses of the key vendors?

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