Computational Fluid Dynamics Software Trends: Market Research Report

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Abstracts

The report analyzes and presents an overview of Computational Fluid Dynamics Software market worldwide. 'Computational Fluid Dynamics Software (CFD) is increasingly becoming an integral part of the designing process in a broad spectrum of industries. The software combines the concepts of flow technology, physics, mathematics, computer applications, and mechanics to offer a sophisticated tool to assist design engineers in evaluating pressure, species concentration, velocity and temperature of a fluid flow for design optimization.'

The report also provides a review of application of CFD in key end-use industries, future prospects, along with strategic industry activities of major companies worldwide. In addition, 33 companies operating in the Drill Bits arena worldwide including Altair Engineering Inc., Autodesk Inc., Bentley Systems Inc., COMSOL Inc., Dassault Systèmes SolidWorks Corporation, Flow Science Inc., Infinite Technologies Inc., Mentor Graphics Corporation, Ricardo PLC, Zeus Numerix, and others are profiled.

Contents

1. COMPUTATIONAL FLUID DYNAMICS SOFTWARE (CFD) – AN OVERVIEW

A Prelude
Role of Advanced Simulation Solutions in Improving Design Processes
CFD Software - An Introduction
CFD Software - Application in Key End-Use Industries
Automotive
Avionics
Chemical Process
Chemical Engineering
Electronics
Medical
Processing
Protection Equipment
Paint/Spray Booth
Semiconductor
UV Light Disinfection

2. RECENT INDUSTRY ACTIVITY

COMSOL Multiphysics Introduces New Modules in COMSOL Multiphysics4. 3b
Simulation Platform
Flow Science Launches Flow-3D v10. 1
Synscape Launches Caedium v5. 0
Blue Ridge Numerics and Bolton Photosciences Introduce CFdesign UVCalc Module
Mentor Graphics Acquires Flowmaster Group
Mentor Graphics Inks Distribution Agreement with Cadlog
Silicon Mechanics Enter into Collaboration with Flow Science
Altair Engineering Inks Agreement with Intelligent Light
Autodesk Purchases Blue Ridge Numerics
Chaos Group Showcases V-Ray 2. 0 Platform
Mentor Graphics Releases Upgraded Version of FloEFD
SGI Acquires OpenCFD
Altair Engineering Adds STREAM CFD to HyperWorks Partner Alliance
Opus Maxim Enters into Partnership with CD-adapco Group

3. MARKET PARTICIPANTS

ACRi USA (Analytic & Computational Research, Inc.) (USA)
Altair Engineering, Inc. (USA)
Altair HyperWorks (USA)
ANSYS, Inc. (USA)
Autodesk, Inc. (USA)
AVL LIST GmbH (Germany)
Bentley Systems, Inc. (USA)
Capvidia (USA)
CD-Adapco (USA)
CFD Research Corporation (USA)
Combustion Research and Flow Technology, Inc. (CRAFT Tech) (USA)
Computational Engineering International, Inc. (USA)
Computational Simulation Software LLC (USA)
COMSOL, Inc. (USA)
Convergent Science, Inc. (USA)
Dassault Systèmes SolidWorks Corporation (USA)
ESI Group (France)
Flow Science, Inc. (USA)
Fluidyn (France)
Infinite Technologies, Inc. (USA)
Innovative Research, Inc. (USA)
Mentor Graphics Corporation (USA)
Metacomp Technologies, Inc. (USA)
MSC Software Corporation (USA)
NEI Software (USA)
Next Limit Technologies SL (Spain)
NUMECA International (Belgium)
Ricardo PLC (UK)
Siemens PLM Software (USA)
Simerics, Inc. (USA)
Software Cradle Co. , Ltd. (Japan)
Sym Scape (USA)
Zeus Numerix (India)

4. APPENDIX

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